


Anti-METTL3 antibody [EPR18810] - BSA and Azide free ab221795

KO 評価済 リコンビナント RabMAb

2 References 画像数 15

製品の概要

| | |
|---------------------|--|
| 製品名 | Anti-METTL3 antibody [EPR18810] - BSA and Azide free |
| 製品の詳細 | Rabbit monoclonal [EPR18810] to METTL3 - BSA and Azide free |
| 由来種 | Rabbit |
| アプリケーション | 適用あり: IHC-P, IP, ICC/IF, WB, Flow Cyt (Intra) |
| 種交差性 | 交差種: Mouse, Rat, Human 交差が予測される動物種: Sheep, Goat, Horse, Guinea pig, Cow, Cat, Dog, Pig, Non human primates  |
| 免疫原 | Recombinant fragment. This information is proprietary to Abcam and/or its suppliers. |
| ポジティブ・コントロール | WB: Raji, HeLa, HEK-293, Jurkat, NCCIT, F9, Neuro-2a, LLC1, C6, RAW 264.7, PC-12 and NIH3T3 cell lysates; human thymus lysate, mouse brain, spleen and heart lysates; rat brain lysate. IHC-P: Human bladder cancer, mouse testis and rat testis tissues. ICC/IF: HCT116 and HeLa cells. IP: HeLa cell lysate. |
| 特記事項 | <p>ab221795 is the carrier-free version of ab195352.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply |

- Animal-free production

For more information [see here](#).

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

製品の特性

| | |
|----------|---|
| 製品の状態 | Liquid |
| 保存方法 | Shipped at 4°C. Store at +4°C. Do Not Freeze. |
| バッファー | pH: 7.2 Constituent: PBS |
| キャリア・フリー | はい |
| 精製度 | Protein A purified |
| ポリ/モノ | モノクローナル |
| クローン名 | EPR18810 |
| アイソタイプ | IgG |

アプリケーション

The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab221795の使用に適用されます**
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

| アプリケーション | Abreviews | 特記事項 |
|------------------|-----------|---|
| IHC-P | | Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. |
| IP | | Use at an assay dependent concentration. |
| ICC/IF | | Use at an assay dependent concentration. |
| WB | | Use at an assay dependent concentration. Detects a band of approximately 64 kDa (predicted molecular weight: 64 kDa). Milk recommended as blocking agent. |
| Flow Cyt (Intra) | | Use at an assay dependent concentration. ab199376 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |

ターゲット情報

| | |
|-------|--|
| 機能 | N6-methyltransferase that methylates adenosine residues of some mRNAs. N6-methyladenosine (m6A), which is present at internal sites of some mRNAs, may play a role in the efficiency of mRNA splicing, transport or translation. |
| 組織特異性 | Widely expressed at low level. Expressed in spleen, thymus, prostate, testis, ovary, small |

intestine, colon and peripheral blood leukocytes.

配列類似性

Belongs to the MT-A70-like family.

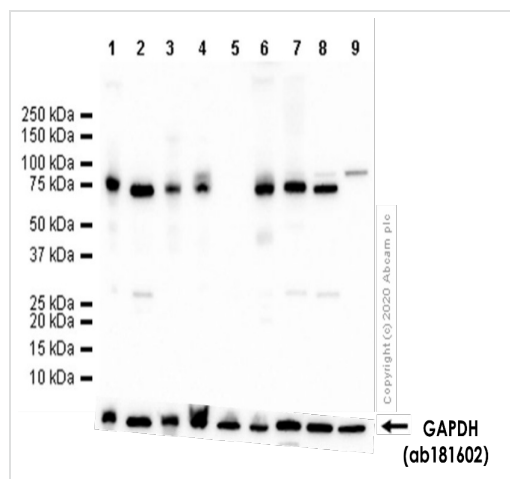
翻訳後修飾

Phosphorylated upon DNA damage, probably by ATM or ATR.

細胞内局在

Nucleus speckle. Colocalizes with speckles in interphase nuclei. Suggesting that it may be associated with nuclear pre-mRNA splicing components.

画像



Western blot - Anti-METTL3 antibody [EPR18810] - BSA and Azide free (ab221795)

All lanes : Anti-METTL3 antibody [EPR18810] ([ab195352](#)) at 1/1000 dilution

Lane 1 : Mouse brain lysate prepared in 1%SDS Hot lysis method at 20 μ g

Lane 2 : Mouse brain lysate prepared in RIPA lysis method at 20 mg/ml

Lane 3 : Mouse heart lysate prepared in 1%SDS Hot lysis method at 20 μ g

Lane 4 : Mouse heart lysate prepared in RIPA lysis method at 20 mg/ml

Lane 5 : Mouse kidney lysate prepared in RIPA lysis method at 20 μ g

Lanes 6-7 : Mouse spleen lysate prepared in spleen lysis method at 20 μ g

Lane 8 : Rat brain lysate prepared in RIPA lysis method at 20 μ g

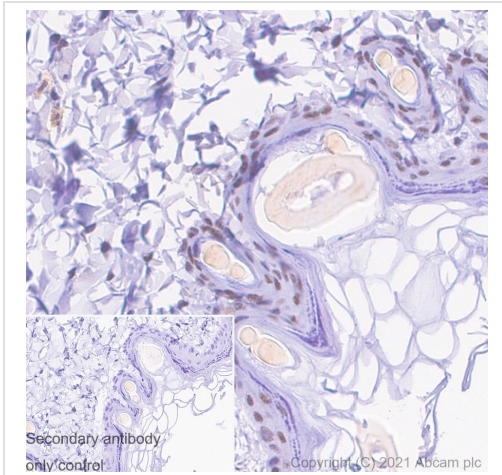
Lane 9 : Rat kidney lysate prepared in RIPA lysis method at 20 μ g

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 64 kDa

Observed band size: 64 kDa



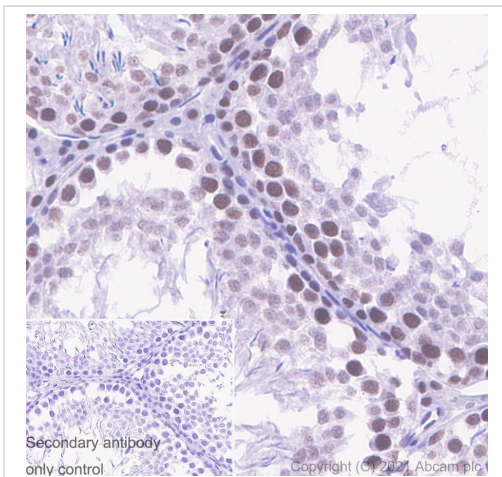
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-METTL3 antibody [EPR18810] - BSA and Azide free (ab221795)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab195352](#)).

Immunohistochemical analysis of paraffin-embedded Rat skin tissue labeling METTL3 using [ab195352](#) at 1/2000 dilution, followed by a Ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Counterstain: Hematoxylin. Nuclear staining on Rat skin. The section was incubated with [ab195352](#) for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Perform Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) for 20 minutes.

Inset image: negative control - secondary antibody only.



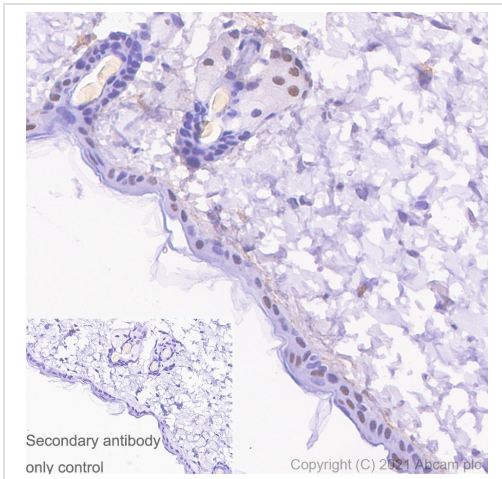
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-METTL3 antibody [EPR18810] - BSA and Azide free (ab221795)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab195352](#)).

Immunohistochemical analysis of paraffin-embedded Rat testis tissue labeling METTL3 using [ab195352](#) at 1/2000 dilution, followed by a Ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Counterstain: Hematoxylin. Nuclear staining on Rat testis. The section was incubated with [ab195352](#) for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Perform Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) for 20 minutes.

Inset image: negative control - secondary antibody only.



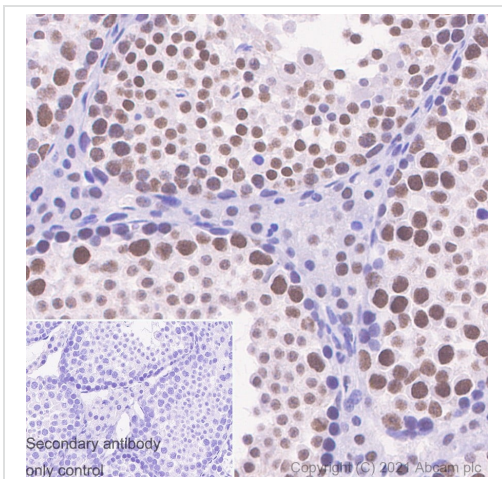
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-METTL3 antibody [EPR18810] - BSA and Azide free (ab221795)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab195352](#)).

Immunohistochemical analysis of paraffin-embedded Mouse skin labeling METTL3 using [ab195352](#) at 1/2000 dilution, followed by a Ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Counterstain: Hematoxylin. Nuclear staining on Mouse skin. The section was incubated with [ab195352](#) for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Perform Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) for 20 minutes.

Inset image: negative control - secondary antibody only.



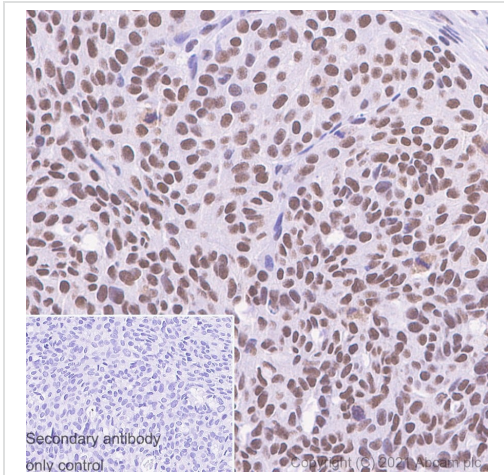
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-METTL3 antibody [EPR18810] - BSA and Azide free (ab221795)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab195352](#)).

Immunohistochemical analysis of paraffin-embedded Mouse testis tissue labeling METTL3 using [ab195352](#) at 1/2000 dilution, followed by a Ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Counterstain: Hematoxylin. Nuclear staining on Mouse testis. The section was incubated with [ab195352](#) for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Perform Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) for 20 minutes.

Inset image: negative control - secondary antibody only.



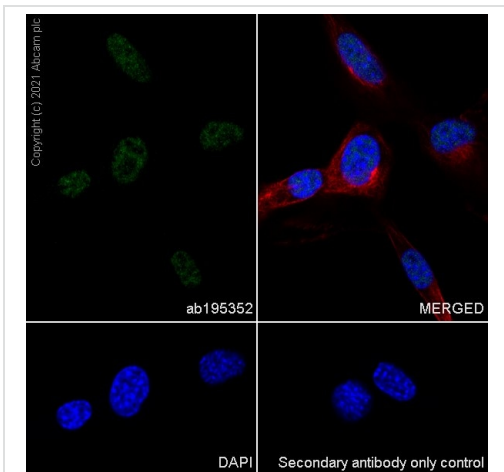
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-METTL3 antibody [EPR18810] - BSA and Azide free (ab221795)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab195352](#)).

Immunohistochemical analysis of paraffin-embedded Human ovarian cancer tissue labeling METTL3 using [ab195352](#) at 1/2000 dilution, followed by a Ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Counterstain: Hematoxylin. Nuclear staining on human ovarian cancer. The section was incubated with [ab195352](#) for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Perform Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) for 20 minutes.

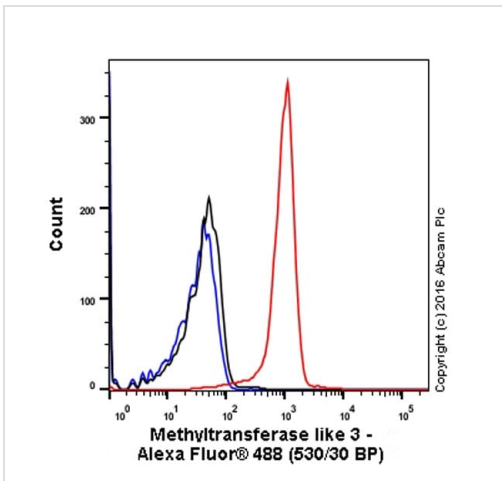
Inset image: negative control - secondary antibody only.



Immunocytochemistry/ Immunofluorescence - Anti-METTL3 antibody [EPR18810] - BSA and Azide free (ab221795)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab195352](#)).

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized NIH/3T3 (mouse embryonic fibroblast) cells labeling METTL3 with [ab195352](#) at 1/200 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150081](#)) secondary antibody at 1/1000 dilution (green). Confocal image showing nuclear staining in NIH/3T3 cells. The nuclear counter stain is DAPI (blue). Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) [ab195889](#) was used at 1/200 dilution as the counterstain.



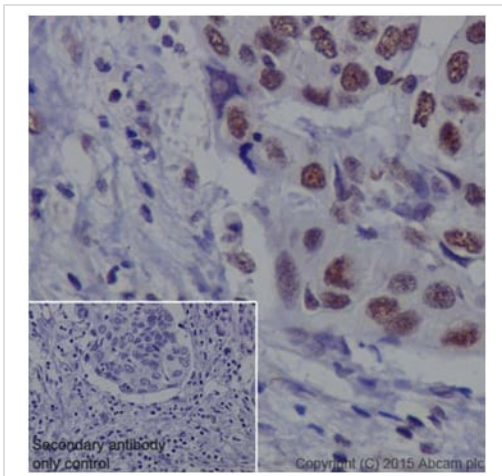
Flow Cytometry (Intracellular) - Anti-METTL3 antibody [EPR18810] - BSA and Azide free (ab221795)

ab195352 staining METTL3 in the human cell line HEK-293 (Human epithelial cell line from embryonic kidney) by intracellular flow cytometry. Cells were fixed with 4% paraformaldehyde and the sample was incubated with the primary antibody at a 1/70 dilution, followed by Goat-Anti Rabbit IgG (Alexa Fluor® 488) secondary antibody at a 1/2000 dilution.

Isotype control: Rabbit monoclonal IgG (Black)

Unlabelled control: Cell without incubation with primary antibody and secondary antibody (Blue)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab195352**).



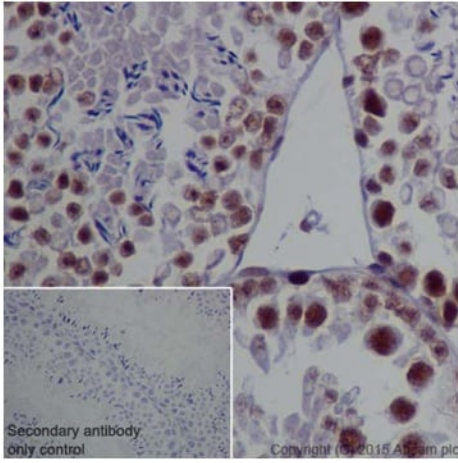
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-METTL3 antibody [EPR18810] - BSA and Azide free (ab221795)

Immunohistochemical analysis of paraffin-embedded human bladder cancer tissue labeling METTL3 using **ab195352** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) secondary antibody at 1/500 dilution. Counterstain: Hematoxylin. Inset image: negative control obtained using PBS instead of **ab195352**, and secondary antibody only.

Note: Nuclear staining on human bladder cancer was observed.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab195352**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-METTL3 antibody [EPR18810] - BSA and Azide free (ab221795)

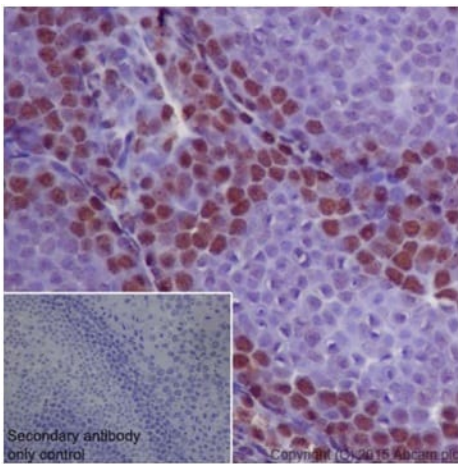
Immunohistochemical analysis of paraffin-embedded mouse testis tissue labeling METTL3 using [ab195352](#) at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) secondary antibody at 1/500 dilution. Counterstain: Hematoxylin.

Inset image: negative control obtained using PBS instead of [ab195352](#), and secondary antibody only.

Note: Nuclear staining on mouse testis was observed.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab195352](#)).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-METTL3 antibody [EPR18810] - BSA and Azide free (ab221795)

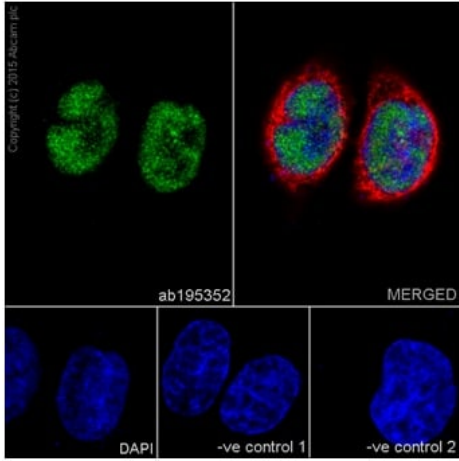
Immunohistochemical analysis of paraffin-embedded rat testis tissue labeling METTL3 using [ab195352](#) at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) secondary antibody at 1/500 dilution. Counterstain: Hematoxylin.

Inset image: negative control obtained using PBS instead of [ab195352](#), and secondary antibody only.

Note: Nuclear staining on rat testis was observed.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab195352](#)).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-METTL3 antibody [EPR18810] - BSA and Azide free (ab221795)

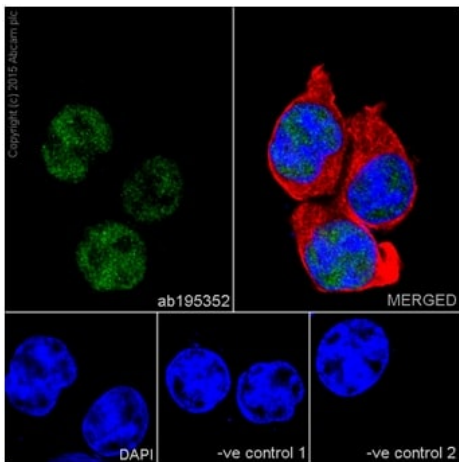
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human epithelial cells from cervix adenocarcinoma) cells labeling METTL3 with **ab195352** at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing nuclear staining on HeLa cell line. The nuclear counter stain is DAPI (blue).

Tubulin is detected with Anti-alpha Tubulin mouse MAb (**ab7291**) at 1/1000 dilution and Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) (**ab150120**) secondary antibody at 1/1000 dilution (red).

The negative controls are as follows:

1. **ab195352** at 1/1000 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) (**ab150120**) secondary antibody at 1/1000 dilution.
2. Anti-alpha Tubulin mouse MAb (**ab7291**) at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab195352**).



Immunocytochemistry/ Immunofluorescence - Anti-METTL3 antibody [EPR18810] - BSA and Azide free (ab221795)

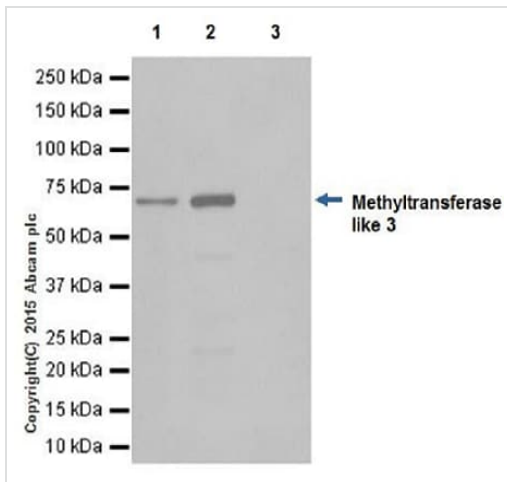
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HCT116 (Human colorectal carcinoma cell line) cells labeling METTL3 with **ab195352** at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing nuclear staining on HCT116 cell line. The nuclear counter stain is DAPI (blue).

Tubulin is detected with anti-alpha Tubulin mouse mAb (**ab7291**) at 1/1000 dilution, followed by Goat Anti-Mouse IgG H&L (AlexaFluor®594) (**ab150120**) secondary antibody at 1/1000 dilution (red).

The negative controls are as follows:

1. **ab195352** at 1/1000 dilution, followed by Goat Anti-Mouse IgG H&L (AlexaFluor®594) (**ab150120**) secondary antibody at 1/1000 dilution.
2. anti-alpha Tubulin mouse mAb (**ab7291**) at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab195352**).



Immunoprecipitation - Anti-METTL3 antibody [EPR18810] - BSA and Azide free (ab221795)

METTL3 was immunoprecipitated from 1mg of HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysate with **ab195352** at 1/50 dilution. Western blot was performed from the immunoprecipitate using **ab195352** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

Lane 1: Input: 10µg of HeLa whole cell lysate.





Lane 2: HeLa whole cell lysate following IP with **ab195352**.

Lane 3: Negative control: IP using Rabbit monoclonal IgG (**ab172730**) instead of **ab195352** in HeLa whole cell lysates.

Blocking and dilution buffer and concentration: 5% NFD/MBST. 1 second exposure.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab195352**).

Why choose a recombinant antibody?

| | |
|---|---|
|  <p>Research with confidence Consistent and reproducible results</p> |  <p>Long-term and scalable supply Recombinant technology</p> |
|  <p>Success from the first experiment Confirmed specificity</p> |  <p>Ethical standards compliant Animal-free production</p> |

Anti-METTL3 antibody [EPR18810] - BSA and Azide free (ab221795)

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