abcam

Product datasheet

Anti-Met (c-Met) antibody [EPR19067] ab216574

KO 評価済 リコンビナント RabMAb

11 References 画像数 13

製品の概要

製品名	Anti-Met (c-Met) antibody [EPR19067]
製品の詳細	Rabbit monoclonal [EPR19067] to Met (c-Met)
由来種	Rabbit
アプリケーション	**適用あり:** WB, IHC-P, ICC/IF, Indirect ELISA, Flow Cyt (Intra)
種交差性	**交差種:** Human, Recombinant fragment
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: A549, HeLa and HepG2 whole cell lysates; Human liver lysate; 293T whole cell lysate transfected with a His-tagged human c-Met construct; HeLa whole cell lysate, untreated or treated with PNGase F. IHC-P: Human breast, colon, liver cancer and ovary cancer tissues. ICC/IF: HeLa and A549 cells. Flow Cyt (intra): A549 and HeLa cells.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: - 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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR19067

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ab216574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
WB		1/1000. Detects a band of approximately 45-175 kDa (predicted molecular weight: 155 kDa).
IHC-P		1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/1000.
Indirect ELISA		Use at an assay dependent concentration.
Flow Cyt (Intra)		1/600.

ターゲット情報

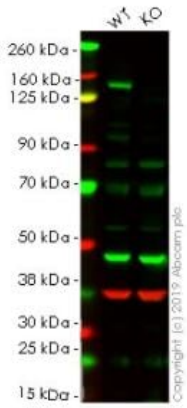
機能 Receptor for hepatocyte growth factor and scatter factor. Has a tyrosine-protein kinase activity. Functions in cell proliferation, scattering, morphogenesis and survival.

関連疾患 Note=Activation of MET after rearrangement with the TPR gene produces an oncogenic protein.
Note=Defects in MET may be associated with gastric cancer.
Defects in MET are a cause of hepatocellular carcinoma (HCC) [MIM:114550].
Defects in MET are a cause of renal cell carcinoma papillary (RCCP) [MIM:605074]. It is a subtype of renal cell carcinoma tending to show a tubulo-papillary architecture formed by numerous, irregular, finger-like projections of connective tissue. Renal cell carcinoma is a heterogeneous group of sporadic or hereditary carcinoma derived from cells of the proximal renal tubular epithelium. It is subclassified into common renal cell carcinoma (clear cell, non-papillary carcinoma), papillary renal cell carcinoma, chromophobe renal cell carcinoma, collecting duct carcinoma with medullary carcinoma of the kidney, and unclassified renal cell carcinoma.
Note=A common allele in the promoter region of the MET shows genetic association with susceptibility to autism in some families. Functional assays indicate a decrease in MET promoter activity and altered binding of specific transcription factor complexes.
Note=MET activating mutations may be involved in the development of a highly malignant, metastatic syndrome known as cancer of unknown primary origin (CUP) or primary occult malignancy. Systemic neoplastic spread is generally a late event in cancer progression. However, in some instances, distant dissemination arises at a very early stage, so that metastases reach clinical relevance before primary lesions. Sometimes, the primary lesions cannot be identified in spite of the progresses in the diagnosis of malignancies.

配列類似性 Belongs to the protein kinase superfamily. Tyr protein kinase family.
Contains 3 IPT/TIG domains.
Contains 1 protein kinase domain.
Contains 1 Sema domain.

ドメイン	The kinase domain is involved in SPSB1 binding.
翻訳後修飾	Dephosphorylated by PTPRJ at Tyr-1349 and Tyr-1365.
細胞内局在	Membrane.

画像



Western blot - Anti-Met (c-Met) antibody [EPR19067] (ab216574)

All lanes : Anti-Met (c-Met) antibody [EPR19067] (ab216574) at 1/1000 dilution

All lanes :

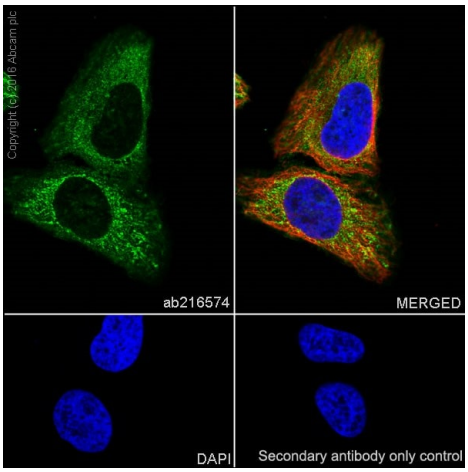
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 155 kDa
Observed band size: 156 kDa

Lanes 1 - 2: Merged signal (red and green). Green - ab216574 observed at 156 kDa. Red - loading control, **ab8245** observed at 37 kDa.

ab216574 was shown to react with Met (c-Met) in wild-type HeLa. Loss of signal was observed when knockout cell line **ab265961** (knockout cell lysate **ab256991**) was used. Wild-type and Met (c-Met) knockout samples were subjected to SDS-PAGE. ab216574 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence - Anti-Met (c-Met) antibody [EPR19067] (ab216574)

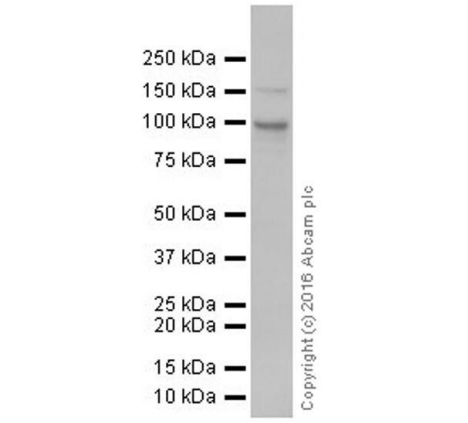
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human epithelial cell line from cervix adenocarcinoma) cells labeling Met (c-Met) with ab216574 at 1/1000 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green).

Confocal image showing cytoplasmic staining on HeLa cell line.

The nuclear counterstain is DAPI (blue).

Tubulin is detected with **ab195889** (Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594)) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) at 1/1000 dilution.



Western blot - Anti-Met (c-Met) antibody [EPR19067] (ab216574)

Anti-Met (c-Met) antibody [EPR19067] (ab216574) at 1/1000 dilution + Human liver lysate at 10 µg

Secondary

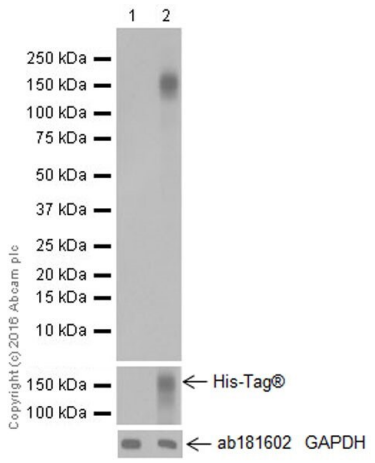
Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/10000 dilution

Predicted band size: 155 kDa
Observed band size: 100-150 kDa

Exposure time: 30 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

In human liver the antibody detected c-Met beta subunit (145 kDa) [PMID: 22418436] and a cleavage c-Met fragment (100 kDa) [PMID: 18187039].



Western blot - Anti-Met (c-Met) antibody [EPR19067] (ab216574)

All lanes : Anti-Met (c-Met) antibody [EPR19067] (ab216574) at 1/10000 dilution

Lane 1 : 293T whole cell lysate (Human epithelial cell line from embryonic kidney) transfected with an empty expression vector
Lane 2 : 293T whole cell lysate transfected with a His-tagged human c-Met construct

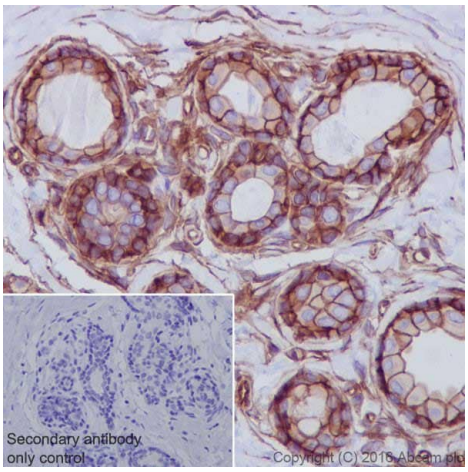
Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 155 kDa
Observed band size: 150-175 kDa

Exposure time: 1 second

Blocking and Diluting buffer and concentration: 5% NFDM /TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Met (c-Met) antibody [EPR19067] (ab216574)

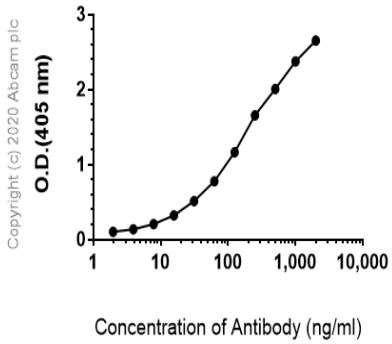
Immunohistochemical analysis of paraffin-embedded human breast tissue labeling Met (c-Met) with ab216574 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use.

Membranous staining on human breast is observed.

Counter stained with Hematoxylin.

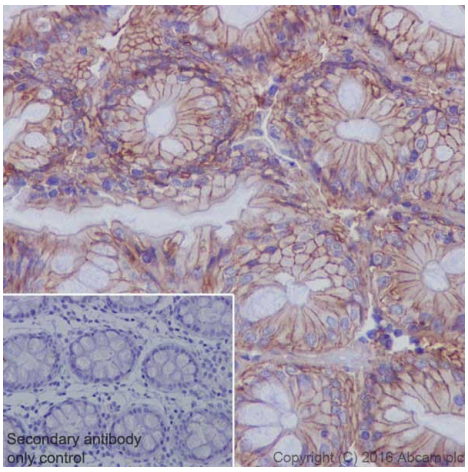
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

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



Indirect ELISA - Anti-Met (c-Met) antibody [EPR19067] (ab216574)

ELISA analysis of Human c-met recombinant protein at 1000 ng/mL with ab216574. An Alkaline Phosphatase-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L) at 1/2500 dilution was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Met (c-Met) antibody [EPR19067] (ab216574)

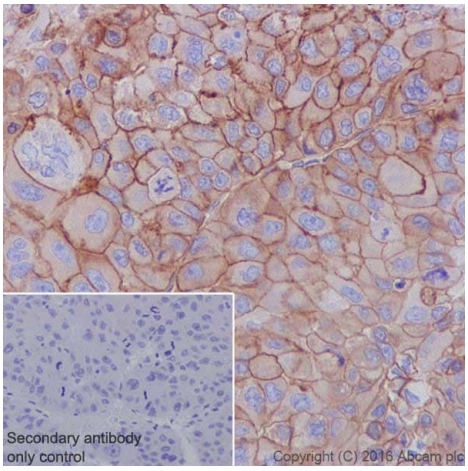
Immunohistochemical analysis of paraffin-embedded human colon tissue labeling Met (c-Met) with ab216574 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use.

Membranous staining on human colon is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

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-Met (c-Met) antibody [EPR19067] (ab216574)

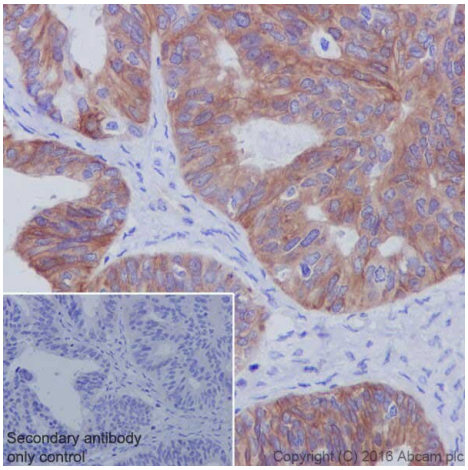
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue labeling Met (c-Met) with ab216574 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use.

Membranous staining on tumor cells of human liver cancer is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

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-Met (c-Met) antibody [EPR19067] (ab216574)

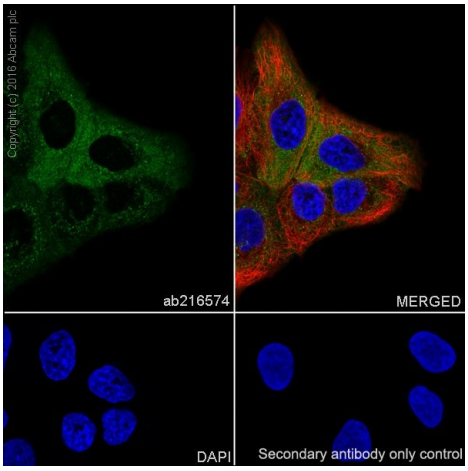
Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue labeling Met (c-Met) with ab216574 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use.

Cytoplasmic and membranous staining on tumor cells of human ovary cancer is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

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



Immunocytochemistry/ Immunofluorescence - Anti-Met (c-Met) antibody [EPR19067] (ab216574)

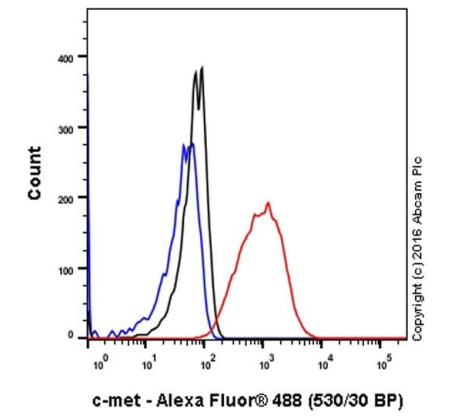
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized A549 (Human lung carcinoma cell line) cells labeling Met (c-Met) with ab216574 at 1/1000 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green).

Confocal image showing cytoplasmic staining on A549 cell line.

The nuclear counterstain is DAPI (blue).

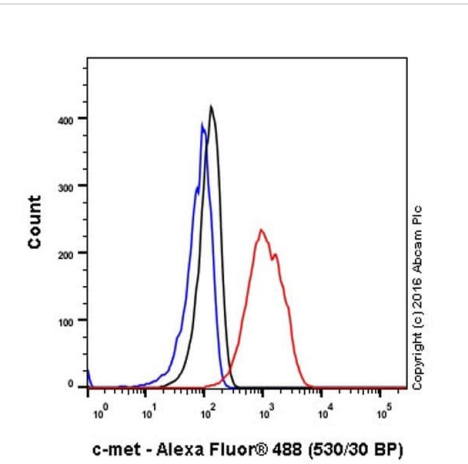
Tubulin is detected with **ab195889** (Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594)) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) at 1/1000 dilution.



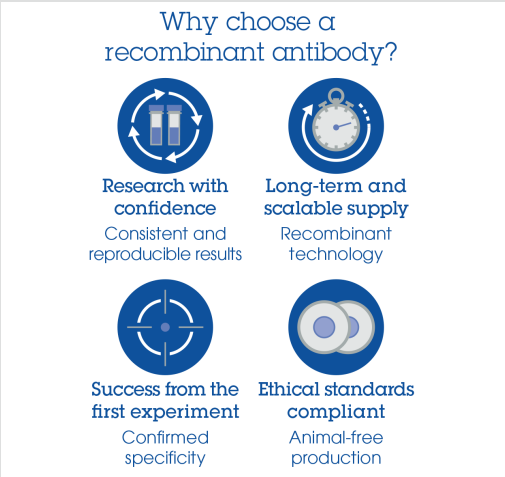
Flow Cytometry (Intracellular) - Anti-Met (c-Met) antibody [EPR19067] (ab216574)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed A549 (Human lung carcinoma cell line) cells labeling Met (c-Met) with ab216574 at 1/600 dilution (red) compared with a rabbit monoclonal IgG isotype control (**ab172730**; black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody; blue). Goat anti rabbit IgG (Alexa Fluor® 488) at 1/2000 dilution was used as the secondary antibody.



Flow Cytometry (Intracellular) - Anti-Met (c-Met) antibody [EPR19067] (ab216574)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed HeLa (Human epithelial cell line from cervix adenocarcinoma) cells labeling Met (c-Met) with ab216574 at 1/600 dilution (red) compared with a rabbit monoclonal IgG isotype control (**ab172730**; black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody; blue). Goat anti rabbit IgG (Alexa Fluor® 488) at 1/2000 dilution was used as the secondary antibody.



Anti-Met (c-Met) antibody [EPR19067] (ab216574)

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