abcam

Product datasheet

Anti-YB1 antibody [EPR22682-21] ab255606

リコンビナント RabMAb

画像数 10

製品の概要

製品名	Anti-YB1 antibody [EPR22682-21]
製品の詳細	Rabbit monoclonal [EPR22682-21] to YB1
由来種	Rabbit
特異性	Not recommended for mouse IHC.
アプリケーション	**適用あり:** Flow Cyt (Intra), WB, IHC-P, ICC/IF, IP
種交差性	**交差種:** Mouse, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: RAW264.7, NIH/3T3, MCF7 and SW480 whole cell lysate; Human tonsil tissue lysate. IHC-P: Human mammary gland and breast cancer tissue. ICC/IF: MCF7 and NIH/3T3 cells. Flow Cyt (intra): MCF7 and A549 cells. IP: MCF7 cell lysate.
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: PBS, 40% Glycerol (glycerin, glycerine), 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	EPR22682-21
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ab255606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
Flow Cyt (Intra)		1/500.
WB		1/1000. Detects a band of approximately 50 kDa (predicted molecular weight: 36 kDa).
IHC-P		1/4000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. Heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).Not recommended for mouse IHC.
ICC/IF		1/100.
IP		1/30.

ターゲット情報

機能

Mediates pre-mRNA alternative splicing regulation. Binds to splice sites in pre-mRNA and regulates splice site selection. Binds and stabilizes cytoplasmic mRNA. Contributes to the regulation of translation by modulating the interaction between the mRNA and eukaryotic initiation factors (By similarity). Regulates the transcription of numerous genes. Its transcriptional activity on the multidrug resistance gene MDR1 is enhanced in presence of the APEX1 acetylated form at 'Lys-6' and 'Lys-7'. Binds to promoters that contain a Y-box (5'-CTGATTGGCCAA-3'), such as MDR1 and HLA class II genes. Promotes separation of DNA strands that contain mismatches or are modified by cisplatin. Has endonucleolytic activity and can introduce nicks or breaks into double-stranded DNA (in vitro). May play a role in DNA repair. Component of the CRD-mediated complex that promotes MYC mRNA stability.
The secreted form acts as an extracellular mitogen and stimulates cell migration and proliferation.

配列類似性

Contains 1 CSD (cold-shock) domain.

翻訳後修飾

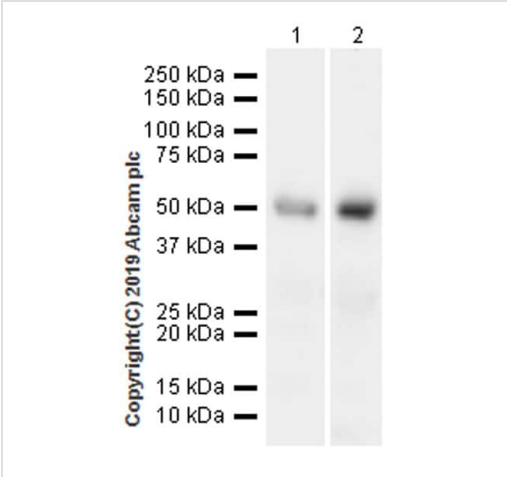
Ubiquitinated by RBBP6; leading to a decrease of YBX1 transcativational ability.
In the absence of phosphorylation the protein is retained in the cytoplasm.
Cleaved by a 20S proteasomal protease in response to agents that damage DNA. Cleavage takes place in the absence of ubiquitination and ATP. The resulting N-terminal fragment accumulates in the nucleus.

細胞内局在

Cytoplasm. Nucleus. Cytoplasmic granule. Secreted. Localized in cytoplasmic mRNP granules containing untranslated mRNAs. Shuttles between nucleus and cytoplasm. Predominantly cytoplasmic in proliferating cells. Cytotoxic stress and DNA damage enhance translocation to the nucleus. Localized with DDX1, MBNL1 and TIAL1 in stress granules upon stress. Secreted by mesangial and monocytic cells after inflammatory challenges. Translocates from the cytoplasm to

the nucleus after and colocalizes with APEX1 in nuclear speckles after genotoxic stress.

画像



Western blot - Anti-YB1 antibody [EPR22682-21] (ab255606)

All lanes : Anti-YB1 antibody [EPR22682-21] (ab255606) at 1/1000 dilution

Lane 1 : RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage), whole cell lysate
Lane 2 : NIH/3T3 (mouse embryonic fibroblast), whole cell lysate

Lysates/proteins at 20 µg per lane.

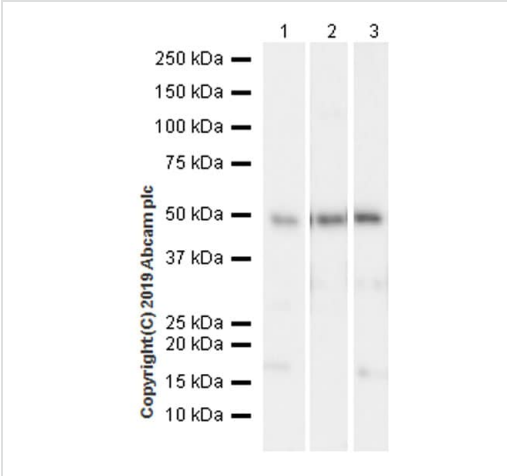
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 36 kDa
Observed band size: 50 kDa

The molecular weight observed is consistent with what has been described in the literature (PMID:29262622).

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

Exposure time: 7.75 seconds



Western blot - Anti-YB1 antibody [EPR22682-21] (ab255606)

All lanes : Anti-YB1 antibody [EPR22682-21] (ab255606) at 1/1000 dilution

Lane 1 : Human tonsil tissue lysate
Lane 2 : MCF7 (human breast adenocarcinoma epithelial cell), whole cell lysate
Lane 3 : SW480 (human colorectal adenocarcinoma epithelial cell), whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
Lane 1 : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/1000 dilution
Lanes 2-3 : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 36 kDa
Observed band size: 50 kDa

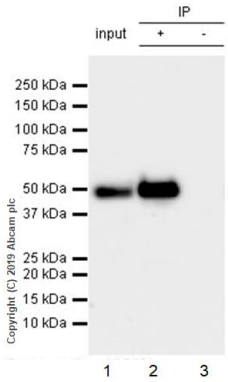
Blocking/diluting buffer and concentration: 5% NFDM/TBST

The molecular weight observed is consistent with what has been described in the literature (PMID:29262622).

Exposure time:

Lane 1: 10 seconds

Lanes 2-3: 37 seconds



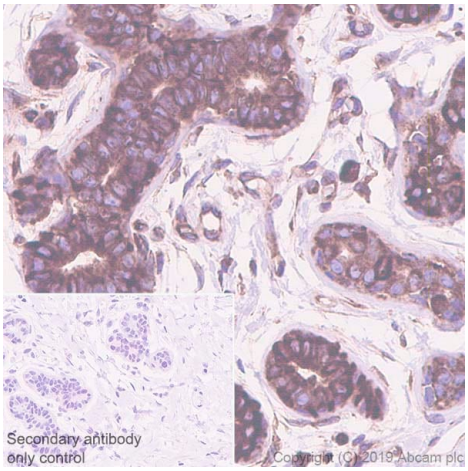
Immunoprecipitation - Anti-YB1 antibody [EPR22682-21] (ab255606)

YB1 was immunoprecipitated from 0.35 mg MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysate 10µg with ab255606 at 1/30 dilution. Western blot was performed on the immunoprecipitate using ab255606 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used as the secondary antibody at 1/5000 dilution.

Lane 1: MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysate 10µg
Lane 2: ab255606 IP in MCF7 whole cell lysate
Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab255606 in MCF7 whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

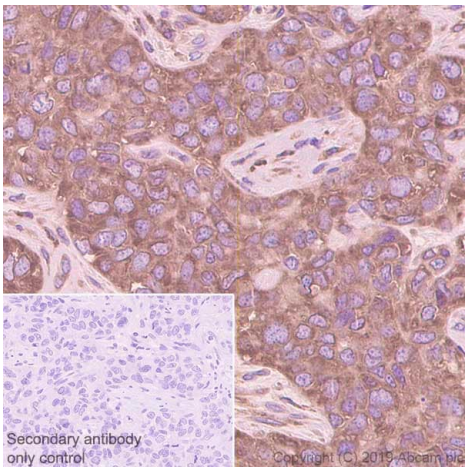
Exposure time: 30 seconds



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-YB1 antibody [EPR22682-21] (ab255606)

Immunohistochemical analysis of paraffin-embedded Human mammary gland tissue labeling YB1 with ab255606 at 1/4000 dilution followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Cytoplasmic staining in human normal mammary gland (PMID: 21695211) is observed. Counterstained with Hematoxylin. Heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).

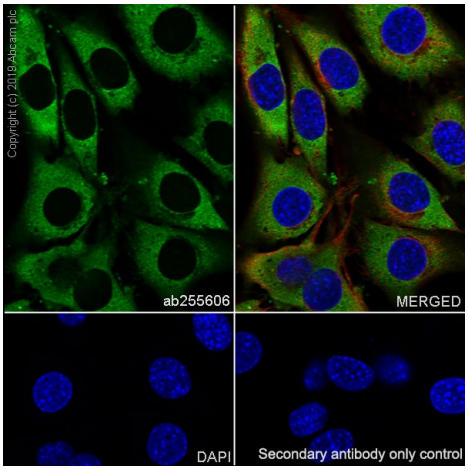
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-YB1 antibody [EPR22682-21] (ab255606)

Immunohistochemical analysis of paraffin-embedded Human breast cancer tissue labeling YB1 with ab255606 at 1/4000 dilution followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Cytoplasmic staining in tumor cells of human breast cancer (PMID: 21695211) is observed. Counterstained with Hematoxylin. Heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).

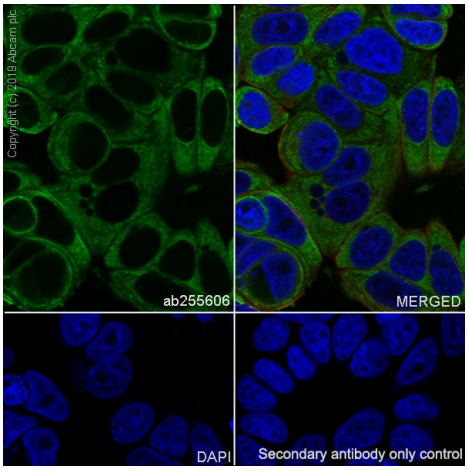
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).



Immunocytochemistry/ Immunofluorescence - Anti-YB1 antibody [EPR22682-21] (ab255606)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized NIH/3T3 (mouse embryonic fibroblast) cells labelling YB1 with ab255606 at 1/100 dilution, followed by **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic staining in NIH/3T3 cell line is observed. **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

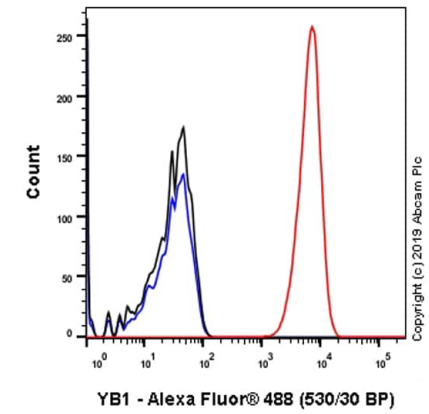
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-YB1 antibody [EPR22682-21] (ab255606)

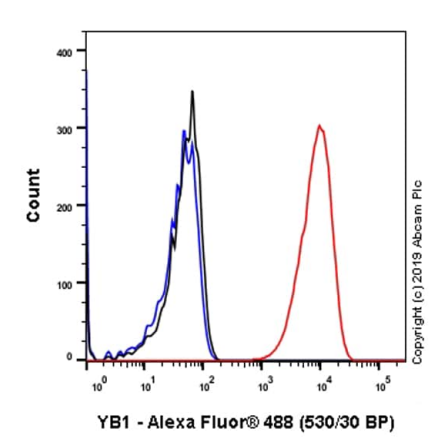
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized MCF7 (human breast adenocarcinoma epithelial cell) cells labelling YB1 with ab255606 at 1/100 dilution, followed by **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic staining in MCF7 cell line is observed. **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution.



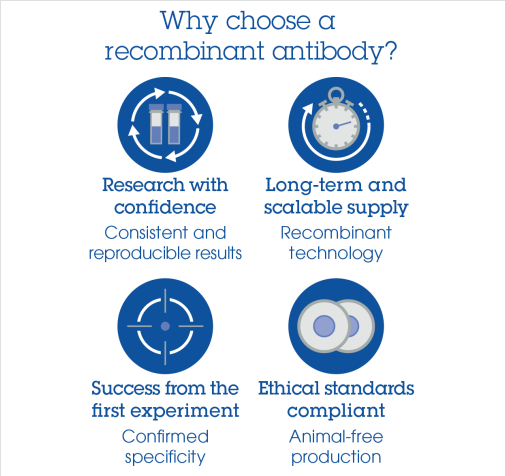
Flow Cytometry (Intracellular) - Anti-YB1 antibody [EPR22682-21] (ab255606)

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed 90% methanolpermeabilized MCF7 (Human breast adenocarcinoma epithelial cell) cells labelling YB1 with ab255606 at 1/500 dilution (Red) compared with a Rabbit monoclonal IgG (**ab172730**, Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.



Flow Cytometry (Intracellular) - Anti-YB1 antibody [EPR22682-21] (ab255606)

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized A549 (Human lung carcinoma epithelial cell) cells labelling YB1 with ab255606 at 1/500 dilution (Red) compared with a Rabbit monoclonal IgG (**ab172730**, Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.



Anti-YB1 antibody [EPR22682-21] (ab255606)

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