abcam

Product datasheet

Anti-RBM3 antibody [EPR6061(2)] ab134946

Recombinant RabMAb

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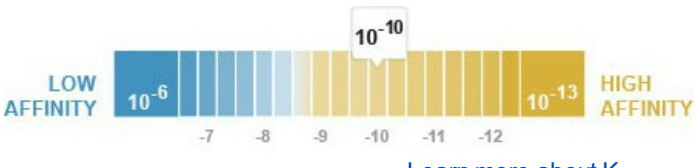
Overview

Product name	Anti-RBM3 antibody [EPR6061(2)]
Description	Rabbit monoclonal [EPR6061(2)] to RBM3
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, Flow Cyt, IHC-P, WB **Unsuitable for:** IP
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide within Human RBM3 aa 100-200 (C terminal). The exact sequence is proprietary. (Peptide available as ab188553)
Positive control	HepG2 cells; HeLa, HepG2, Jurkat, NIH/3T3 and RAW 264.7 cell lysates.
General notes	Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents. This product is a recombinant rabbit monoclonal antibody.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20ºC.
Dissociation constant (K_D)	$K_D = 1.50 \times 10^{-10}$ M  Learn more about K_D
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol, 0.05% BSA, 50% Tissue culture supernatant

Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR6061(2)
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab134946** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

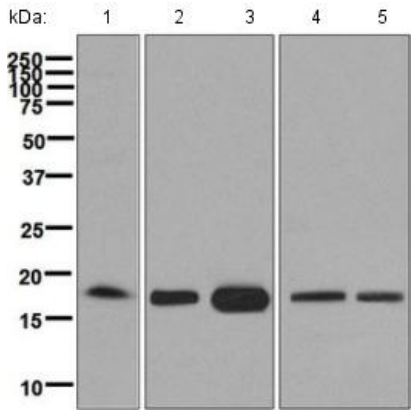
Application	Abreviews	Notes
ICC/IF	★★★★★	1/250 - 1/500.
Flow Cyt		Use at an assay dependent concentration.
IHC-P		1/20000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB	★★★★★	1/1000 - 1/10000. Predicted molecular weight: 17 kDa.Can be blocked with Human RBM3 peptide (ab188553).

Application notes	Is unsuitable for IP.

Target

Function	Cold-inducible mRNA binding protein that enhances global protein synthesis at both physiological and mild hypothermic temperatures. Reduces the relative abundance of microRNAs, when overexpressed. Enhances phosphoryaltion of translation initiation factors and active polysome formation.
Sequence similarities	Contains 1 RRM (RNA recognition motif) domain.
Post-translational modifications	Arg-105 is dimethylated, probably to asymmetric dimethylarginine. Phosphorylated.
Cellular localization	Nucleus. Cytoplasm. Cell projection > dendrite. Localizes in mRNA granules in dentrites.

Images



Western blot - Anti-RBM3 antibody [EPR6061(2)] (ab134946)

All lanes : Anti-RBM3 antibody [EPR6061(2)] (ab134946) at 1/1000 dilution

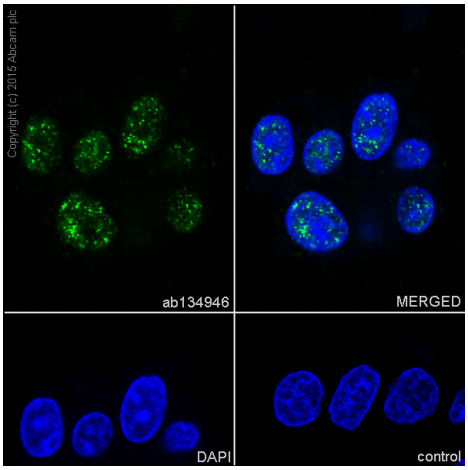
Lane 1 : RAW 264.7 cell lysate
Lane 2 : HepG2 cell lysate
Lane 3 : NIH/3T3 cell lysate
Lane 4 : Jurkat cell lysate
Lane 5 : HeLa cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Standard HRP labelled goat anti-rabbit at 1/2000 dilution

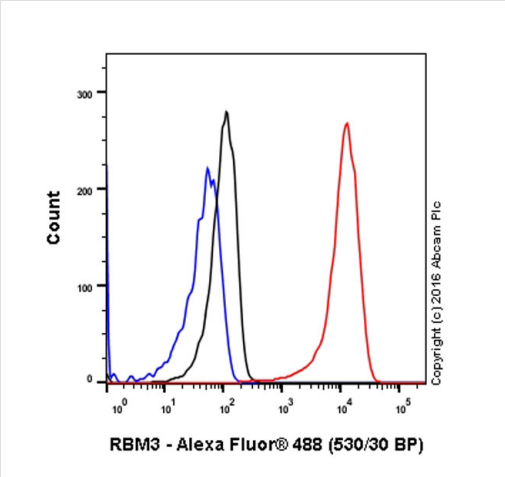
Developed using the ECL technique.

Predicted band size: 17 kDa



Immunocytochemistry/ Immunofluorescence - Anti-RBM3 antibody [EPR6061(2)] (ab134946)

Immunofluorescence staining of HepG2 cells with purified ab134946 at a working dilution of 1/500, counter-stained with DAPI. The secondary antibody was an Alexa Fluor® 488 conjugated goat anti-rabbit (ab150077), used at a dilution of 1/1000. The cells were fixed in 4% PFA and permeabilized using 0.1% Triton X 100. The negative control is shown in bottom right hand panel - for the negative control, PBS was used instead of the primary antibody.

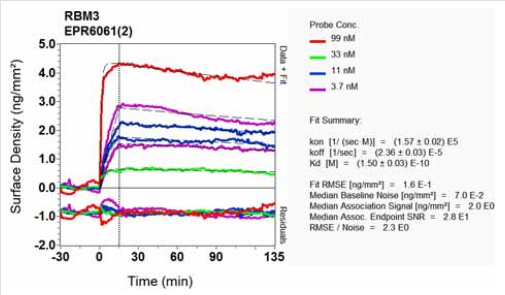


Flow Cytometry - Anti-RBM3 antibody [EPR6061(2)] (ab134946)

ab134946 staining RBM3 in the human cell line HepG2 (human hepatocellular carcinoma) by flow cytometry. Cells were fixed with 4% paraformaldehyde and the sample was incubated with the primary antibody at a dilution of 1/20. A goat anti rabbit IgG (Alexa Fluor® 488) at a dilution of 1/2000 was used as the secondary antibody.

Isoytype control: Rabbit monoclonal IgG (Black)

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



Other - Anti-RBM3 antibody [EPR6061(2)] (ab134946)

Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D

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