

Product datasheet

Anti-hnRNP M1-M4 antibody [EPR13509(B)] ab177957

Recombinant RabMAb

★★★★★ [2 Abreviews](#) [3 References](#) [11 Images](#)

Overview

Product name	Anti-hnRNP M1-M4 antibody [EPR13509(B)]
Description	Rabbit monoclonal [EPR13509(B)] to hnRNP M1-M4
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), IHC-P, WB, ICC/IF Unsuitable for: IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human hnRNP M1-M4 aa 250-350 (Cysteine residue). The exact sequence is proprietary. Database link: P52272
Positive control	WB: HeLa, HepG2, Jurkat, 293T, Mouse brain, and Rat brain lysates. IHC-P: human kidney, human kidney carcinoma, mouse testis, and rat cerebrum tissues. ICC/IF: HeLa cells. Flow Cyt (intra): HeLa cells.
General notes	<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 <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR13509(B)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab177957 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

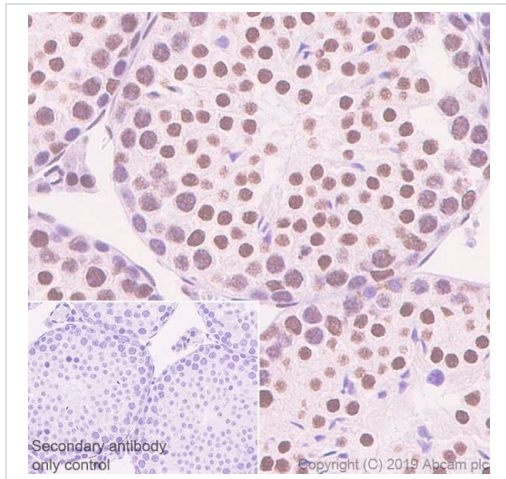
Application	Abreviews	Notes
Flow Cyt (Intra)		1/100.
IHC-P		1/4000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. See <u>IHC antigen retrieval protocols</u> .
WB	★★★★★ (1)	1/1000 - 1/10000. Predicted molecular weight: 78 kDa.
ICC/IF	★★★★★ (1)	1/100 - 1/250.

Application notes Is unsuitable for IP.

Target

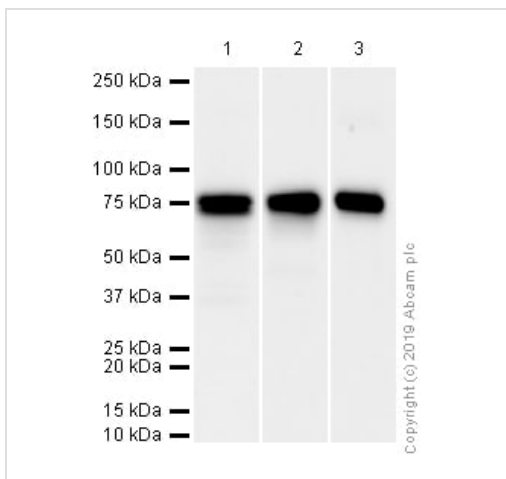
Function	Pre-mRNA binding protein in vivo, binds avidly to poly(G) and poly(U) RNA homopolymers in vitro. Involved in splicing. Acts as a receptor for carcinoembryonic antigen in Kupffer cells, may initiate a series of signaling events leading to tyrosine phosphorylation of proteins and induction of IL-1 alpha, IL-6, IL-10 and tumor necrosis factor alpha cytokines.
Sequence similarities	Contains 3 RRM (RNA recognition motif) domains.
Post-translational modifications	Sumoylated.
Cellular localization	Nucleus > nucleolus.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hnRNP M1-M4 antibody [EPR13509(B)] (ab177957)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse testis tissue sections labeling hnRNP M1-M4 with Purified ab177957 at 1:4000 dilution (0.24 µg/ml). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used for detection. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-hnRNP M1-M4 antibody [EPR13509(B)] (ab177957)

All lanes : Anti-hnRNP M1-M4 antibody [EPR13509(B)] (ab177957) at 1/10000 dilution (Purified)

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2 : Mouse brain lysates

Lane 3 : Rat brain lysates

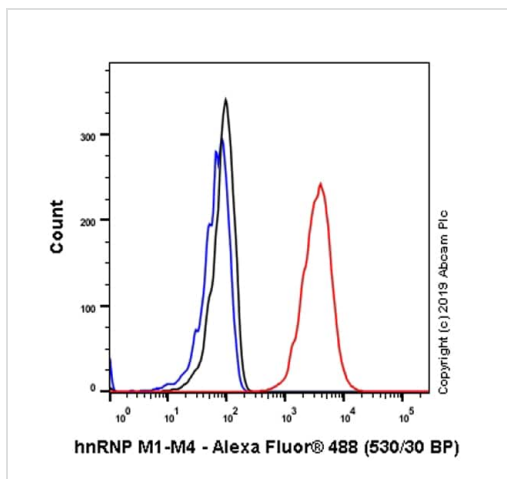
Lysates/proteins at 15 µg per lane.

Secondary

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

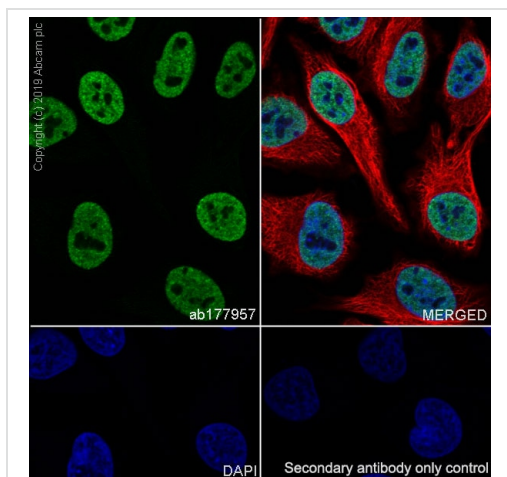
Predicted band size: 78 kDa

Observed band size: 78 kDa



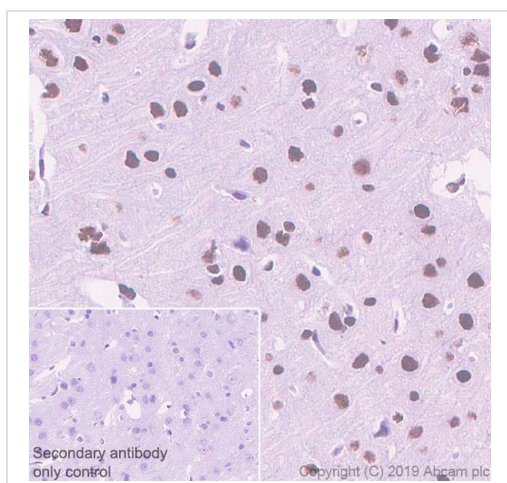
Flow Cytometry (Intracellular) - Anti-hnRNP M1-M4 antibody [EPR13509(B)] (ab177957)

Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling hnRNP M1-M4 with Purified ab177957 at 1/100 dilution (10 µg/ml) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



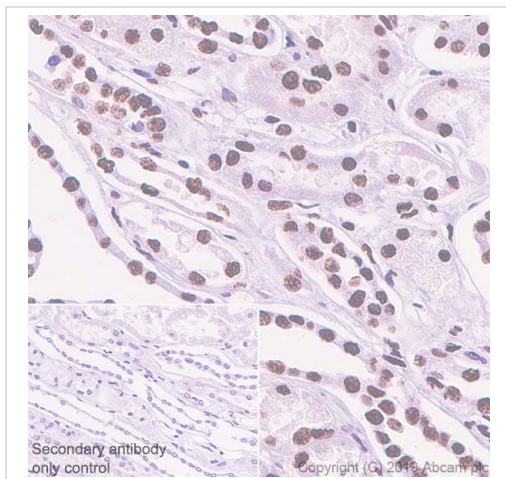
Immunocytochemistry/ Immunofluorescence - Anti-hnRNP M1-M4 antibody [EPR13509(B)] (ab177957)

Immunocytochemistry/ Immunofluorescence analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling hnRNP M1-M4 with Purified ab177957 at 1:100 dilution (9.7 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



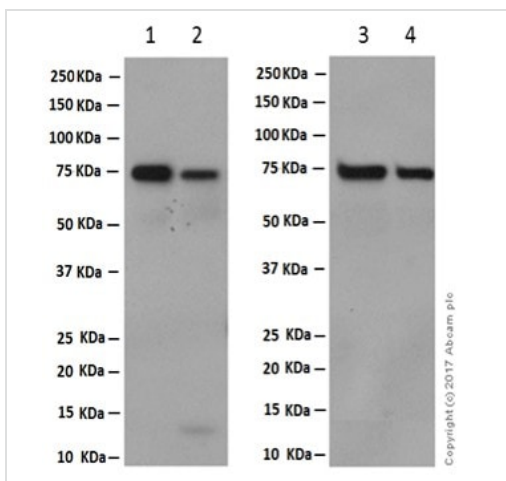
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hnRNP M1-M4 antibody [EPR13509(B)] (ab177957)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat cerebrum tissue sections labeling hnRNP M1-M4 with Purified ab177957 at 1:4000 dilution (0.24 µg/ml). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used for detection. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hnRNP M1-M4 antibody [EPR13509(B)] (ab177957)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human kidney tissue sections labeling hnRNP M1-M4 with Purified ab177957 at 1:4000 dilution (0.24 µg/ml). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) was used for detection. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-hnRNP M1-M4 antibody [EPR13509(B)] (ab177957)

All lanes : Anti-hnRNP M1-M4 antibody [EPR13509(B)] (ab177957) at 1/2000 dilution

Lane 1 : Mouse brain tissue lysate

Lane 2 : Mouse heart tissue lysate

Lane 3 : Rat brain tissue lysate

Lane 4 : Rat heart tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

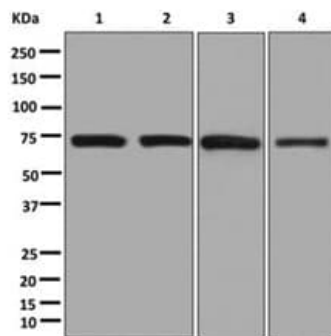
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 78 kDa

Observed band size: 78 kDa

Exposure time: 3 minutes

Blocking and Diluting buffer 5% NFDM/TBST



Western blot - Anti-hnRNP M1-M4 antibody
[EPR13509(B)] (ab177957)

All lanes : Anti-hnRNP M1-M4 antibody [EPR13509(B)]
(ab177957) at 1/1000 dilution

Lane 1 : HepG2 cell lysate

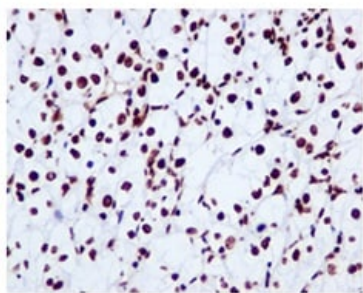
Lane 2 : HeLa cell lysate

Lane 3 : Jurkat cell lysate

Lane 4 : 293T cell lysate

Lysates/proteins at 10 µg per lane.

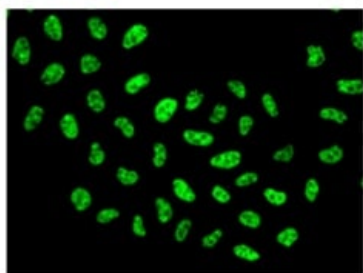
Predicted band size: 78 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-hnRNP M1-M4 antibody
[EPR13509(B)] (ab177957)

Immunohistochemical analysis of Human kidney carcinoma tissue
labeling hnRNP M1-M4 using ab177957 at 1/50 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6
before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-
hnRNP M1-M4 antibody [EPR13509(B)] (ab177957)

Immunofluorescence analysis of HeLa cells labeling hnRNP M1-
M4 using ab177957 at 1/100 dilution.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-hnRNP M1-M4 antibody [EPR13509(B)]
(ab177957)

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