

Product datasheet

Anti-Pumilio 2 antibody [EPR3813] ab92390

Recombinant RabMAb

[12 References](#) [6 Images](#)

Overview

Product name	Anti-Pumilio 2 antibody [EPR3813]
Description	Rabbit monoclonal [EPR3813] to Pumilio 2
Host species	Rabbit
Specificity	This antibody is predicted to not cross react with Pumilio 1.
Tested applications	Suitable for: Flow Cyt (Intra), WB, IP, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human Pumilio 2 aa 1-100. The exact sequence is proprietary.
Positive control	WB: HeLa and 293T cell lysates ICC/IF: MCF-7 cells. Flow Cyt (intra): HeLa cells IP: 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	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR3813
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab92390 in the following tested applications.

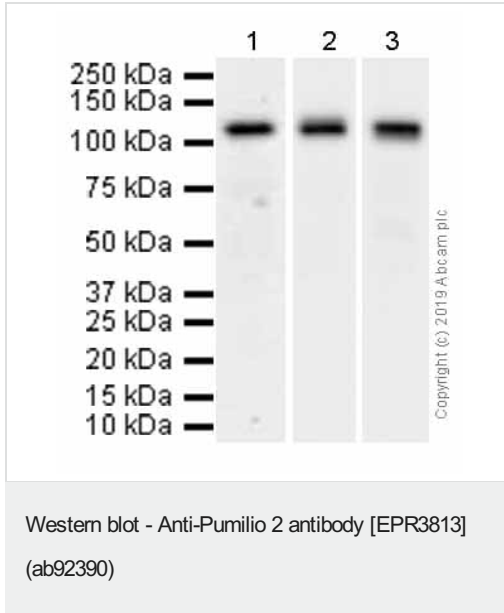
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/30.
WB		1/5000 - 1/10000. Predicted molecular weight: 114 kDa.
IP		1/10 - 1/20.
ICC/IF		1/50. For unpurified use at 1/100 - 1/250.

Target

Function	Sequence-specific RNA-binding protein that regulates translation and mRNA stability by binding the 3'-UTR of mRNA targets. Its interactions and tissue specificity suggest that it may be required to support proliferation and self-renewal of stem cells by regulating the translation of key transcripts.
Tissue specificity	Expressed in male germ cells of adult testis (at protein level). Highly expressed in testis and ovary. Predominantly expressed in stem cells and germ cells. Expressed at lower level in brain, heart, kidney, liver, muscle, placenta, intestine and stomach Expressed in cerebellum, corpus callosum, caudate nucleus, hippocampus, medulla oblongata and putamen. Expressed in all fetal tissues tested.
Sequence similarities	Contains 1 PUM-HD domain. Contains 8 pumilio repeats.
Domain	The pumilio repeats mediate the association with RNA by packing together to form a right-handed superhelix that approximates a half doughnut. The number as well as the specific sequence of the repeats determine the specificity for target mRNAs.
Cellular localization	Cytoplasm. Cytoplasmic granule. Cytoplasm > perinuclear region. The cytoplasmic granules are stress granules which are a dense aggregation in the cytosol composed of proteins and RNAs that appear when the cell is under stress. Colocalizes with NANOS3 in the stress granules (By similarity). Colocalizes with NANOS1 and SNAPIN in the perinuclear region of germ cells.

Images



All lanes : Anti-Pumilio 2 antibody [EPR3813] (ab92390) 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

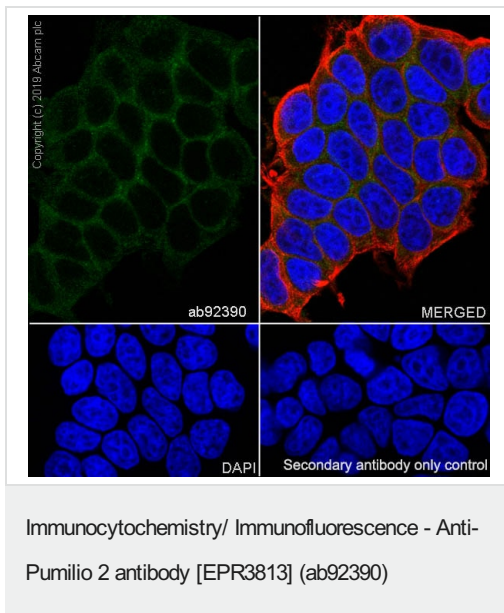
Lysates/proteins at 15 µg per lane.

Secondary

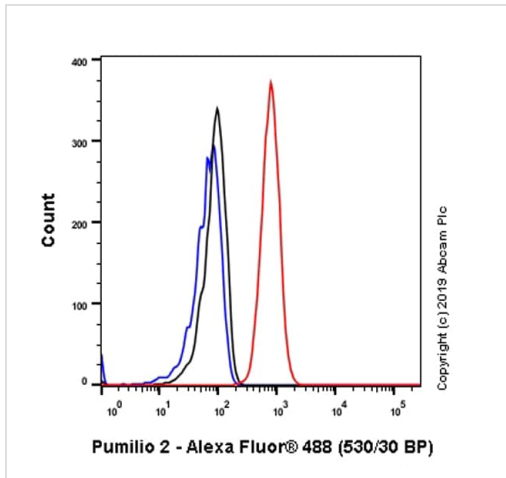
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 114 kDa

Observed band size: 114 kDa

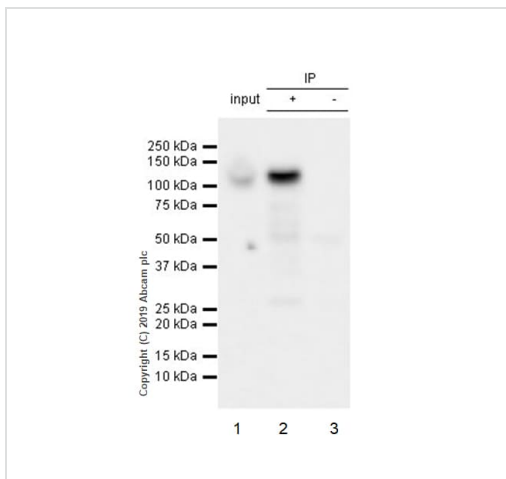


Immunocytochemistry/ Immunofluorescence analysis of MCF7 (Human breast adenocarcinoma epithelial cell) cells labeling Pumilio 2 with purified ab92390 at 1/50 dilution (4.8 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at 1/200 (2.5 µg/ml) dilution. 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.



Flow Cytometry (Intracellular) - Anti-Pumilio 2 antibody [EPR3813] (ab92390)

Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling Pumilio 2 with purified ab92390 at 1/30 dilution (10µg/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).



Immunoprecipitation - Anti-Pumilio 2 antibody [EPR3813] (ab92390)

ab92390 (purified) at 1/20 dilution (1ug) immunoprecipitating Pumilio 2 in HeLa whole cell lysates.

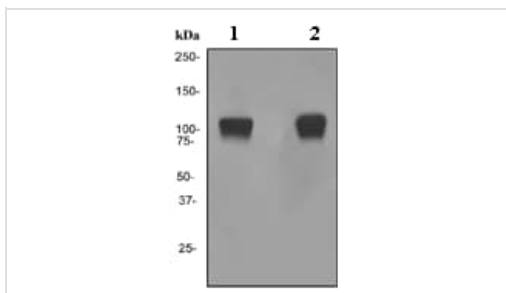
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates 10ug

Lane 2 (+): ab92390 & HeLa whole cell lysates

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab92390 in HeLa whole cell lysates

For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used at 1/1000 dilution.

Blocking and diluting buffer: 5% NFDm/TBST.



Western blot - Anti-Pumilio 2 antibody [EPR3813] (ab92390)

All lanes : Anti-Pumilio 2 antibody [EPR3813] (ab92390) at 1/5000 dilution (unpurified)

Lane 1 : HeLa cell lysate

Lane 2 : 293T cell lysate

Lysates/proteins at 10 µg per lane.


Secondary

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

Predicted band size: 114 kDa

Observed band size: 114 kDa

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-Pumilio 2 antibody [EPR3813] (ab92390)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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