

Product datasheet

Anti-Pentraxin 3/PTX3 antibody [EPR18678-105] ab190838

Recombinant RabMAb

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Overview

Product name	Anti-Pentraxin 3/PTX3 antibody [EPR18678-105]
Description	Rabbit monoclonal [EPR18678-105] to Pentraxin 3/PTX3
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB, IP, Flow Cyt (Intra)
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HUVEC whole cell lysate (+/- treatment with LPS and BFA). ICC/IF: HUVEC cells. Flow Cyt (intra): HUVEC cells. IP: HUVEC whole cell lysate.
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	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), PBS</p>
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR18678-105

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab190838 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		1/100.
WB		1/1000. Detects a band of approximately 42 kDa (predicted molecular weight: 41 kDa).
IP		1/30.
Flow Cyt (Intra)		1/60.

Target

Function

Plays a role in the regulation of innate resistance to pathogens, inflammatory reactions, possibly clearance of self-components and female fertility.

Sequence similarities

Contains 1 pentaxin domain.

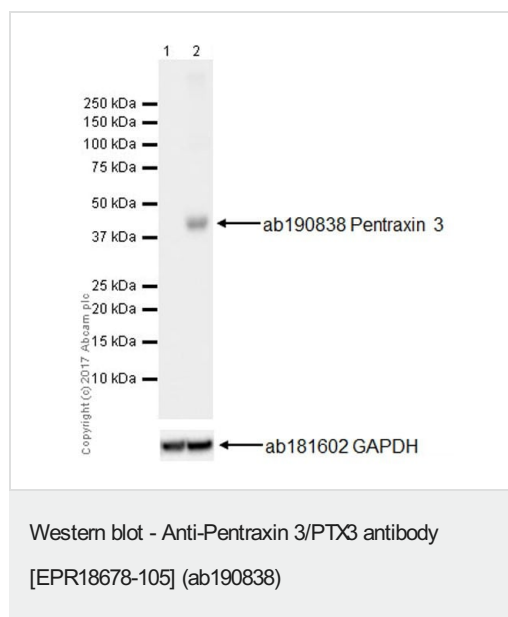
Post-translational modifications

Glycosylated.

Cellular localization

Secreted.

Images



All lanes : Anti-Pentraxin 3/PTX3 antibody [EPR18678-105] (ab190838) at 1/1000 dilution

Lane 1 : Untreated HUVEC (human umbilical vein endothelial cell line) whole cell lysate

Lane 2 : HUVEC treated with 0.5 ug/ml LPS for 4 hours followed by 300 ng/ml BFA for 20 hours, whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

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

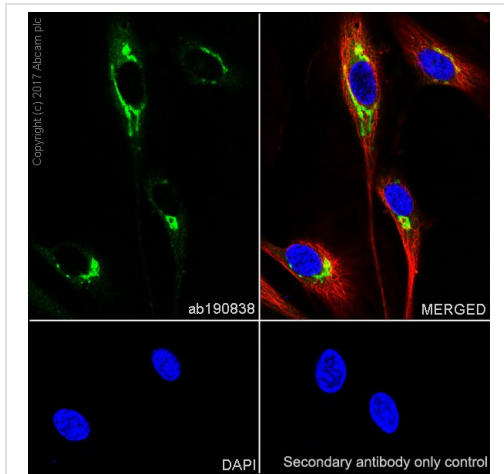
Developed using the ECL technique.

Predicted band size: 41 kDa

Observed band size: 42 kDa

Exposure time: 1 second

Blocking and dilution buffer: 5% NFDM/TBST

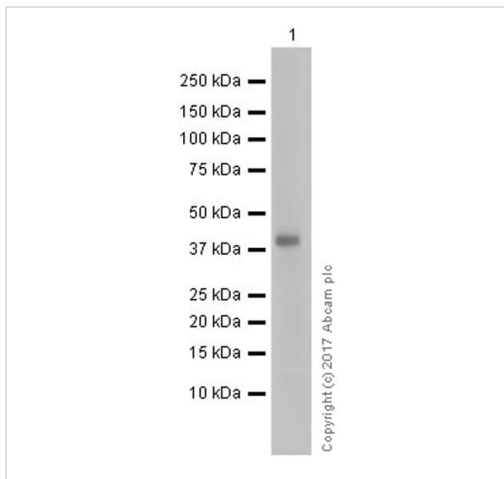


Immunocytochemistry/ Immunofluorescence - Anti-Pentraxin 3/PTX3 antibody [EPR18678-105] (ab190838)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HUVEC (human umbilical vein endothelial cell line) cells labeling Pentraxin 3/PTX3 with ab190838 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining on HUVEC cell line.

The nuclear counterstain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) ([ab195889](#)) secondary antibody at 1/200 dilution (red).

-ve control: PBS only, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution.



Western blot - Anti-Pentraxin 3/PTX3 antibody [EPR18678-105] (ab190838)

Anti-Pentraxin 3/PTX3 antibody [EPR18678-105] (ab190838) at 1/200 dilution + HUVEC (human umbilical vein endothelial cell line) whole cell lysate at 20 µg

Secondary

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

Developed using the ECL technique.

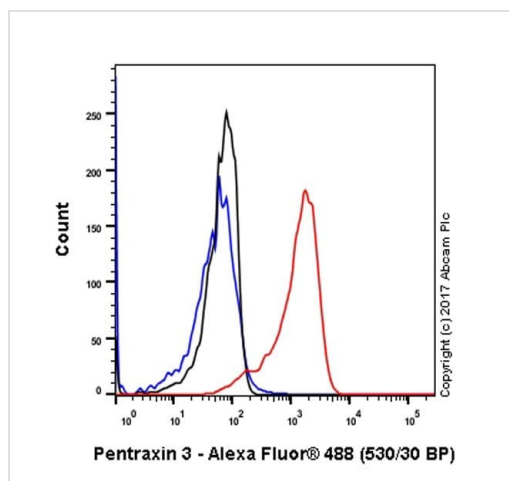
Predicted band size: 41 kDa

Observed band size: 42 kDa

Exposure time: 1 minute

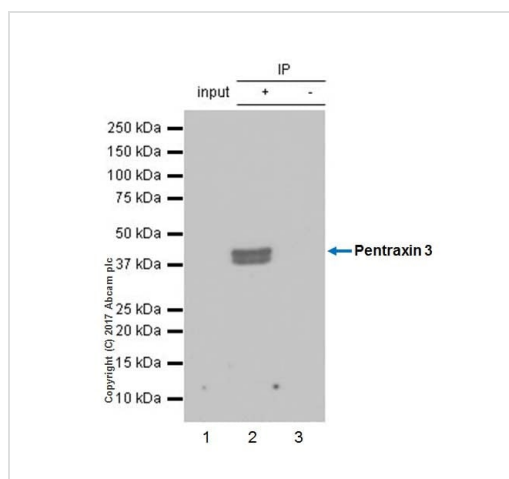
Blocking and dilution buffer: 5% NFDM/TBST

Higher concentration of this antibody is required for the detection of Pentraxin 3/PTX3 in untreated cells in WB.



Flow Cytometry (Intracellular) - Anti-Pentraxin 3/PTX3 antibody [EPR18678-105] (ab190838)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized HUVEC (human umbilical vein endothelial cell line) cells labeling Pentraxin 3/PTX3 with ab190838 at 1/60 dilution (red) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) (black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**), at 1/2000 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-Pentraxin 3/PTX3 antibody [EPR18678-105] (ab190838)

Pentraxin 3/PTX3 was immunoprecipitated from 0.35 mg of HUVEC (human umbilical vein endothelial cell line) whole cell lysate with ab190838 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab190838 at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/1000 dilution.

Lane 1: HUVEC whole cell lysate 10 µg (Input).

Lane 2: ab190838 IP in HUVEC whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab190838 in HUVEC whole cell lysate.

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

Exposure time: 3 minutes.

The molecular weight observed is consistent with what has been described in the literature (PMID: 17389238).

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-Pentraxin 3/PTX3 antibody [EPR18678-105]
(ab190838)

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

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