

Product datasheet

Anti-FXYD1/PLM antibody [EPR16081] ab191397

Recombinant RabMAb

4 Images

Overview

Product name	Anti-FXYD1/PLM antibody [EPR16081]
Description	Rabbit monoclonal [EPR16081] to FXYD1/PLM
Host species	Rabbit
Tested applications	Suitable for: IHC-P, IP, WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Human skeletal muscle lysate; Human fetal heart and fetal liver lysates; Human cardiac muscle tissue.
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: 40% Glycerol (glycerin, glycerine), 59% PBS, 0.05% BSA</p>
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR16081
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab191397 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
IHC-P		1/350 - 1/700. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IP		1/90.
WB		1/1000 - 1/10000. Detects a band of approximately 12 kDa (predicted molecular weight: 10 kDa).

Target

Function

May have a functional role in muscle contraction. Induces a hyperpolarization-activated chloride current when exogenously expressed.

Tissue specificity

Highest expression in skeletal muscle and heart. Moderate levels in brain, placenta, lung, liver, pancreas, uterus, bladder, prostate, small intestine and colon with mucosal lining. Very low levels in kidney, colon and small intestine without mucosa, prostate without endothelial lining, spleen, and testis.

Sequence similarities

Belongs to the FXYP family.

Post-translational modifications

Major plasma membrane substrate for cAMP-dependent protein kinase (PK-A) and protein kinase C (PK-C) in several different tissues (By similarity). Phosphorylated in response to insulin and adrenergic stimulation. May be phosphorylated by DMPK. Palmitoylation increases half-life and stability, it is enhanced upon phosphorylation at Ser-88 by PKA.

Cellular localization

Membrane.

Images



Western blot - Anti-FXYD1/PLM antibody
[EPR16081] (ab191397)

All lanes : Anti-FXYD1/PLM antibody [EPR16081] (ab191397) at 1/10000 dilution

Lane 1 : Human skeletal muscle lysate

Lane 2 : Human fetal heart tissue lysate

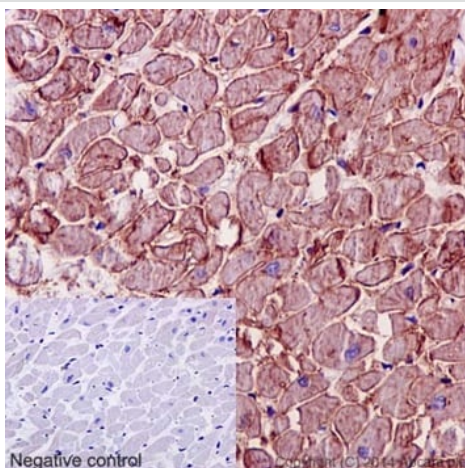
Lane 3 : Human fetal liver tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 10 kDa

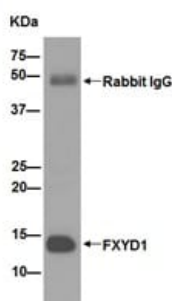


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FXYD1/PLM antibody
[EPR16081] (ab191397)

Immunohistochemical analysis of paraffin-embedded Human cardiac muscle tissue labeling FXYD1/PLM with ab191397 at 1/700 dilution followed by pre-diluted HRP Polymer for Rabbit IgG secondary antibody and counter-stained with Hematoxylin.

Inset: Negative control: using PBS instead of primary antibody.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-FXYD1/PLM antibody
[EPR16081] (ab191397)

Western blot analysis of immunoprecipitation pellet from Human fetal liver lysate immunoprecipitated using ab191397 at 1/90 dilution.

Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 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-FXYD1/PLM antibody [EPR16081] (ab191397)

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

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