

Product datasheet

Anti-FXYD1/PLM antibody [EPR16082] ab200204

Recombinant RabMAb

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Overview

Product name	Anti-FXYD1/PLM antibody [EPR16082]
Description	Rabbit monoclonal [EPR16082] to FXYD1/PLM
Host species	Rabbit
Tested applications	Suitable for: WB, IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human skeletal muscle, fetal heart and fetal liver lysates; Mouse and rat heart lysates. IP: Human fetal heart 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: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR16082
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab200204 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
WB		1/1000. Detects a band of approximately 12 kDa (predicted molecular weight: 10 kDa).
IP		1/120.

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.

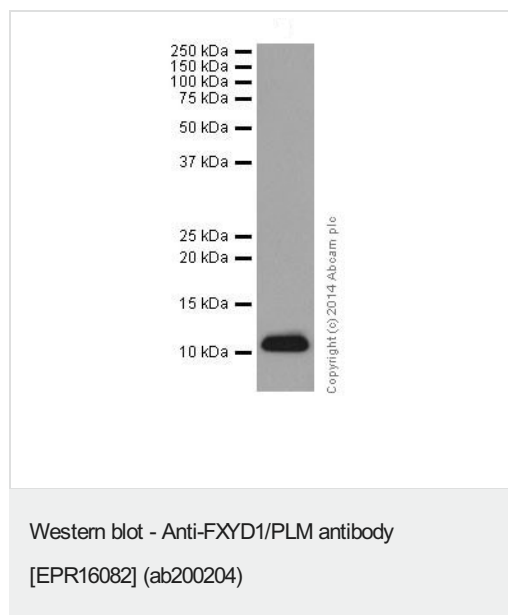
Post-translational modifications

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



Anti-FXYD1/PLM antibody [EPR16082] (ab200204) at 1/1000 dilution + Human skeletal muscle tissue lysate at 20 µg

Secondary

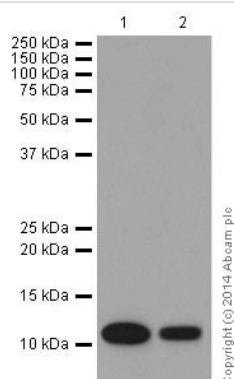
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 10 kDa

Observed band size: 12 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-FXYD1/PLM antibody
[EPR16082] (ab200204)

All lanes : Anti-FXYD1/PLM antibody [EPR16082] (ab200204) at
1/10000 dilution

Lane 1 : Human fetal heart tissue lysate

Lane 2 : Human fetal liver tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

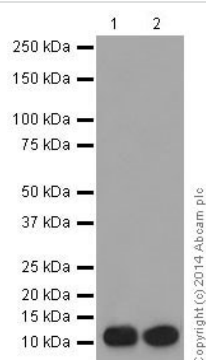
All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form
of IgG at 1/1000 dilution

Predicted band size: 10 kDa

Observed band size: 12 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-FXYD1/PLM antibody
[EPR16082] (ab200204)

All lanes : Anti-FXYD1/PLM antibody [EPR16082] (ab200204) at
1/1000 dilution

Lane 1 : Mouse heart lysate

Lane 2 : Rat heart lysate

Lysates/proteins at 10 µg per lane.

Secondary

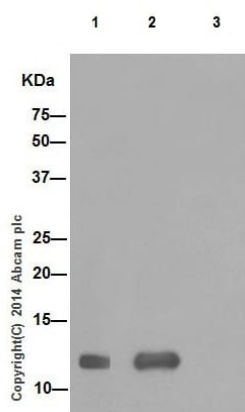
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at
1/1000 dilution

Predicted band size: 10 kDa

Observed band size: 12 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



Immunoprecipitation - Anti-FXYD1/PLM antibody
[EPR16082] (ab200204)

FXYD1/PLM was immunoprecipitated from 1mg of Human fetal heart whole cell lysate with ab200204 at 1/120 dilution. Western blot was performed using ab200204 at 1/5000 dilution. Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1500 dilution.

Lane 1: Human fetal heart whole cell lysate 10ug (Input).

Lane 2: ab200204 IP in Human fetal heart whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab200204 in Human fetal heart whole cell lysate.

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

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 [EPR16082] (ab200204)

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