


Product datasheet

Anti-PTPRE antibody [EPR6715] ab126788

Recombinant RabMAb

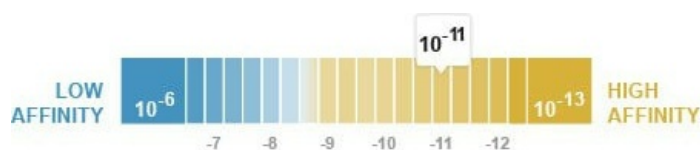
[1 References](#) [4 Images](#)

Overview

Product name	Anti-PTPRE antibody [EPR6715]
Description	Rabbit monoclonal [EPR6715] to PTPRE
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB Unsuitable for: ICC/IF, IHC-P or IP
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	HL60 treated with TPA, HL60, HeLa and C2C12 cell lysates; Permeabilized HL60 cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <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 For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant (K _D)	K _D = 5.10 x 10 ⁻¹¹ M



[Learn more about K_D](#)

Storage buffer	pH: 7.20
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	Preservative: 0.01% Sodium azide
	Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR6715
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab126788 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

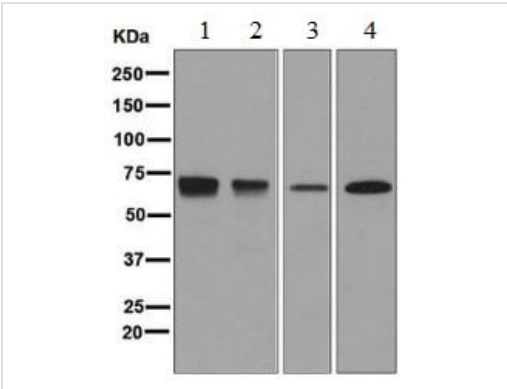
Application	Abreviews	Notes
Flow Cyt (Intra)		1/10 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000 - 1/10000. Detects a band of approximately 72 kDa (predicted molecular weight: 71, 75, 81 kDa).

Application notes Is unsuitable for ICC/IF, IHC-P or IP.

Target

Function	<p>Isoform 1 plays a critical role in signaling transduction pathways and phosphoprotein network topology in red blood cells. May play a role in osteoclast formation and function.</p> <p>Isoform 2 acts as a negative regulator of insulin receptor (IR) signaling in skeletal muscle. Regulates insulin-induced tyrosine phosphorylation of insulin receptor (IR) and insulin receptor substrate 1 (IRS-1), phosphorylation of protein kinase B and glycogen synthase kinase-3 and insulin induced stimulation of glucose uptake.</p> <p>Isoform 1 and isoform 2 act as a negative regulator of FcεRI-mediated signal transduction leading to cytokine production and degranulation, most likely by acting at the level of SYK to affect downstream events such as phosphorylation of SLP76 and LAT and mobilization of Ca(2+).</p>
Tissue specificity	Expressed in giant cell tumor (osteoclastoma rich in multinucleated osteoclastic cells).
Sequence similarities	<p>Belongs to the protein-tyrosine phosphatase family. Receptor class 4 subfamily.</p> <p>Contains 2 tyrosine-protein phosphatase domains.</p>
Domain	The tyrosine-protein phosphatase 2 domain (D2) mediates dimerization. The extreme N- and C-termini of the D2 domain act to inhibit dimerization and removal of these sequences increases dimerization and inhibits enzyme activity.
Post-translational modifications	<p>A catalytically active cytoplasmic form (p65) is produced by proteolytic cleavage of either isoform 1, isoform 2 or isoform 3.</p> <p>Isoform 1 and isoform 2 are phosphorylated on tyrosine residues by tyrosine kinase Neu.</p> <p>Isoform 1 is glycosylated.</p>
Cellular localization	Cytoplasm; Cell membrane and Cytoplasm. Predominantly cytoplasmic. A small fraction is also associated with nucleus and membrane. Insulin induces translocation to the membrane.

Images



Western blot - Anti-PTPRE antibody [EPR6715] (ab126788)

All lanes : Anti-PTPRE antibody [EPR6715] (ab126788) at 1/1000 dilution

Lane 1 : HL60 cell lysate, treated with TPA

Lane 2 : HL60 cell lysate

Lane 3 : HeLa cell lysate

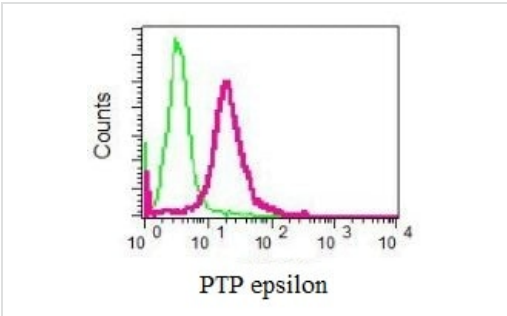
Lane 4 : C2C12 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

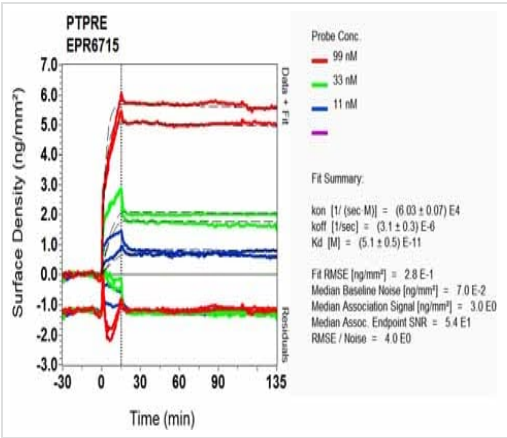
All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 71, 75, 81 kDa



Flow Cytometry (Intracellular) - Anti-PTPRE antibody [EPR6715] (ab126788)

ab126788 at 1/10 dilution staining PTPRE in permeabilized HL60 cells by intracellular flow cytometry (red) compared with a rabbit IgG negative control (green).



OI-RD Scanning - Anti-PTPRE antibody [EPR6715] (ab126788)

Equilibrium disassociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

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-PTPRE antibody [EPR6715] (ab126788)

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