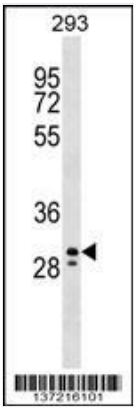
PEF1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PEF1, Polyclonal Antibody
Full Product Name	PEF1, ID (PEF1, ABP32, Peflin, PEF protein with a long N-terminal hydrophobic domain, Penta-EF hand domain-containing protein 1) (PE)
Product Gene Name	anti-PEF1 antibody
Product Synonym Names	PEF1; ABP32; Peflin; PEF protein with a long N-terminal hydrophobic domain; Penta-EF hand domain-containing protein 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	30,381 Da
OMIM	610033
3D Structure	ModBase 3D Structure for Q9UBV8
Immunogen	PEF1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 94-121 amino acids from the Central region of human PEF1.
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-PEF1 antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-PEF1 antibody	Western Blot (WB), FLISA
Application Notes for anti-PEF1 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-PEF1 antibody	This gene encodes a calcium-binding protein belonging to the penta-EF-hand protein family. The encoded protein has been shown to form a heterodimer with the programmed cell death 6 gene product and may modulate its function in Ca(2+) signaling. Alternative splicing results in multiple transcript variants and a pseudogene has been identified on chromosome 1.
Product References and Citations for anti-PEF1 antibody	Lamesch, P., et al. Genomics 89(3):307-315(2007). Hansen, C., et al. FEBS Lett. 545 (2-3), 151-154 (2003): Satoh, H., et al. Biochim. Biophys. Acta 1600 (1-2), 61-67 (2002): Kitaura, Y., et al. Arch. Biochem. Biophys. 399(1):12-18(2002). Kitaura, Y., et al. J. Biol. Chem. 276(17):14053-14058(2001).

Other Notes	Small volumes of anti-PEF1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PEF1 purchase	MBS6332627 is an antibody targeting PEF1. Also known as PEF1, ID (PEF1, ABP32, Peflin, PEF protein with a long N-terminal hydrophobic domain, Penta-EF hand domain-containing protein 1) (PE). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-PEF1 antibody
PEF1 Antibody (Center) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the PEF1 antibody detected the PEF1 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PEF1. It may not necessarily be applicable to this product.

NCBI GI #	6912582
NCBI GeneID	553115
NCBI Accession #	NP_036524.1
UniProt Primary Accession #	Q9UBV8
UniProt Related Accession #	Q9UBV8
GenBank Nucleotide #	NM_012392.3
NCBI Official Full Name	peflin
NCBI Official Synonym Full Names	penta-EF-hand domain containing 1
NCBI Official Symbol	PEF1
NCBI Official Synonym Symbols	ABP32; PEF1A
UniProt Protein Name	Peflin
UniProt Synonym Protein Names	PEF protein with a long N-terminal hydrophobic domain; Penta-EF hand domain-containing protein 1
Protein Family	Peflin
UniProt Gene Name	PEF1
UniProt Synonym Gene Names	ABP32
UniProt Entry Name	PEF1_HUMAN
NCBI Protein Information	peflin; PEF protein with a long N-terminal hydrophobic domain; penta-EF hand domain containing 1

UniProt Comments for PEF1	PEF1: Heterodimer; heterodimerizes with PDCD6/ALG2. Dissociates from PDCD6/ALG2 in presence of Ca(2+). Chromosomal Location of Human Ortholog: 1p34 Cellular Component: membrane; cytoplasm Molecular Function: protein dimerization activity; protein binding; protein heterodimerization activity; calcium-dependent cysteine-type endopeptidase activity; calcium ion binding Biological Process: proteolysis; response to calcium ion
Research Articles on PEF1	**1.** peflin is stabilized by dimerization through its fifth EF-hand region
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