PEF1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PEF1, Polyclonal Antibody
Full Product Name	Anti-PEF1 Antibody
Product Gene Name	anti-PEF1 antibody
Product Synonym Names	Peflin; penta-EF-hand domain containing 1; Peflin; PEF protein with a long N-terminal hydrophobic domain; Penta-EF hand domain-containing protein 1; PEF1; ABP32; UNQ1845; PRO3573
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized
Purity/Purification	Immunogen Affinity Purified
Specificity	No cross reactivity with other proteins.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.
OMIM	610033
3D Structure	ModBase 3D Structure for Q9UBV8
Immunogen	E Coli-derived human PEF1 recombinant protein (Position: R170-L284).
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Relevant Detection Systems	We recommend Enhanced Chemiluminescent Kit with anti-Rabbit IgG (MBS176460) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC(P).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500mug/ml.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-PEF1 antibody	Western Blot (WB), Immunohistochemistry (IHC) Paraffin, Direct ELISA (EIA)
Application Notes for anti-PEF1 antibody	WB: 0.1-0.5ug/ml IHC-P: 0.5-1ug/ml Direct ELISA: 0.1-0.5ug/ml
Related Product Information for anti-PEF1 antibody	Description: Rabbit IgG polyclonal antibody for PEF1 detection. Tested with WB, IHC-P, Direct ELISA in Human; Mouse; Rat. Background: Peflin is a protein that in humans is encoded by the PEF1 gene. 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	1. Kitaura Y, Watanabe M, Satoh H, Kawai T, Hitomi K, Maki M (Oct 1999). "Peflin, a novel member of the five-EF-hand-protein family, is similar to the apoptosis-linked gene 2 (ALG-2) protein but possesses nonapeptide repeats in the N-terminal hydrophobic region". Biochem Biophys Res Commun. 263 (1): 68-75. 2. Kitaura Y, Satoh H, Takahashi H, Shibata H, Maki M (Mar 2002). "Both ALG-2 and peflin, penta-EF-hand (PEF) proteins, are stabilized by dimerization through their fifth EF-hand regions". Arch Biochem Biophys.399 (1): 12-8.
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	MBS1752547 is an antibody targeting PEF1. Reactive in Human, Mouse, Rat. Host: Rabbit.

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 #	NP_036524.1
NCBI Official Full Name	peflin isoform 1
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
NCBI Summary for PEF1	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.[provided by RefSeq, May 2010]
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.** This work identifies for the first time a clear steady state role for a PEF protein in ER-to-Golgi transport-peflin is a negative regulator of transport.

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