PEF1 Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	PEF1, Lysate
Full Product Name	Human PEF1 Protein Lysate
Product Gene Name	PEF1 lysate
Product Synonym Names	PEF1; ABP32; PEF1A
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	34.5 kDa (320aa), confirmed by MALDI-TOF
OMIM	610033
3D Structure	ModBase 3D Structure for Q9UBV8
Related Product Information for PEF1 lysate	Human PEF1 Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of PEF1 lysate 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	MBS8417040 is a lysate targeting PEF1. Also known as Human PEF1 Protein Lysate. Host: Human.

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
UniProt Primary Accession #	Q9UBV8
UniProt Related Accession #	Q9UBV8
GenBank Nucleotide #	NM_012392
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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