PFDN4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PFDN4, Polyclonal Antibody
Full Product Name	PFDN4, NT (PFDN4, PFD4, Prefoldin subunit 4, Protein C-1) (MaxLight 405)
Product Gene Name	anti-PFDN4 antibody
Product Synonym Names	PFDN4; PFD4; Prefoldin subunit 4; Protein C-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 MaxLight405.
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: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	15,314 Da
OMIM	604898
3D Structure	ModBase 3D Structure for Q9NQP4
Immunogen	PFDN4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 4-32 amino acids from the N-terminal region of human PFDN4.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-PFDN4 antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-PFDN4 antibody	Western Blot (WB), FLISA
Application Notes for anti-PFDN4 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-PFDN4 antibody	This gene encodes a member of the prefoldin beta subunit family. The encoded protein is one of six subunits of prefoldin, a molecular chaperone complex that binds and stabilizes newly synthesized polypeptides, thereby allowing them to fold correctly. The complex, consisting of two alpha and four beta subunits, forms a double beta barrel assembly with six protruding coiled-coils.
Product References and Citations for anti-PFDN4 antibody	Simons, C.T., et al. J. Biol. Chem. 279(6):4196-4203(2004). Martin-Benito, J., et al. EMBO J. 21(23):6377-6386(2002). Hartl, F.U., et al. Science 295(5561):1852-1858(2002). Deloukas, P., et al. Nature 414(6866):865-871(2001). Cowan, N.J., et al. Nat. Struct. Biol. 6(11):990-991(1999).
Other Notes	Small volumes of anti-PFDN4 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 PFDN4 purchase	MBS6332864 is an antibody targeting PFDN4. Also known as PFDN4, NT (PFDN4, PFD4, Prefoldin subunit 4, Protein C-1) (MaxLight 405). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PFDN4. It may not necessarily be applicable to this product.

NCBI GI #	12408677
NCBI GeneID	5203
NCBI Accession #	NP_002614.2
UniProt Primary Accession #	Q9NQP4
UniProt Secondary Accession #	Q5TD11; Q92779
UniProt Related Accession #	Q9NQP4
GenBank Nucleotide #	NM_002623.3
NCBI Official Full Name	prefoldin subunit 4
NCBI Official Synonym Full Names	prefoldin subunit 4
NCBI Official Symbol	PFDN4
NCBI Official Synonym Symbols	C1; PFD4
UniProt Protein Name	Prefoldin subunit 4
UniProt Synonym Protein Names	Protein C-1
Protein Family	Prefoldin
UniProt Gene Name	PFDN4
UniProt Synonym Gene Names	PFD4
UniProt Entry Name	PFD4_HUMAN
NCBI Protein Information	prefoldin subunit 4; prefoldin 4; protein C-1
UniProt Comments for PFDN4	PFDN4: Binds specifically to cytosolic chaperonin (c-CPN) and transfers target proteins to it. Binds to nascent polypeptide chain and promotes folding in an environment in which there are many competing pathways for nonnative proteins. Belongs to the prefoldin subunit beta family. Chromosomal Location of Human Ortholog: 20q13.2 Cellular Component: mitochondrion; cytoplasm; nucleus; cytosol; prefoldin complex Molecular Function: protein binding; chaperone binding; unfolded protein binding Biological Process: 'de novo' posttranslational protein folding; cellular protein metabolic process; protein folding
Research Articles on PFDN4	**1.** PFDN4 inhibition resulted in an increase in cell growth and invasiveness in colorectal cancer cell lines.
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