10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PBLD Rabbit pAb

Catalog # AP97989

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	P30039
Other Accession	P30039
Predicted	Rat, Human, Mouse, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	31785
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PBLD/MAWBP
Epitope Specificity	31-140/288
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the phzF family.
SUBUNIT	Interacts with UNRIP/MAWD.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	MAWDBP (MAWD binding protein), also known as PBLD (phenazine biosynthesis-like protein domain containing) or MAWBP, is a 288 amino acid protein that belongs to the phenazine biosynthesis-like protein (PhzF) family. It has been suggested that MAWDBP is the only representative of the PhzF family in the human genome. Expressed in most tissues, MAWDBP is a WD-40 repeat-containing β-propeller protein believed to participate in the MAPK signaling pathway. Involved in multiple basic cellular functions, expression of MAWDBP is elevated in several disease processes, including insulin resistance, folate deficiency and hypotension. It is thought that MAWDBP may also be involved in carcinogenesis.

Additional Information

Gene ID	64081
Other Names	HEL-S-306; MAWBP; MAWDBP; PBLD_HUMAN; PBLD; MAWD-binding protein (MAWDBP); Unknown protein 32 from 2D-page of liver tissue; 5.1.-.-; phenazine biosynthesis like protein domain containing; phenazine biosynthesis-like protein domain containing; MAWD binding protein
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	PBLD (HGNC:23301)
Synonyms	MAWBP
Function	Functions as a positive regulator of the antiviral immune response by modulating innate immunity and viral replication by enhancing type I interferon (IFN-I) response (PubMed:39362857, PubMed:39589880, PubMed:39779683). PBLD enhances IFN-I signaling via multiple pathways (PubMed:39362857, PubMed:39589880, PubMed:39779683). Promotes IRF3-mediated IFN-I production and apoptosis, thereby inhibiting viral replication (PubMed:39362857). Up-regulates IFN-I response by activating the NF-kappaB signaling pathway, potentially through inhibition of TRIM21-mediated degradation of phosphorylated IKKbeta, thereby sustaining NF-kappaB activation to counteract viral infection (PubMed:39779683). Additionally, promotes the p53-USP4-MAVS signaling axis by stabilizing MAVS through USP4-mediated deubiquitination, thereby enhancing the IFN-I response against RNA virus infection (PubMed:39589880). Acts as a tumor suppressor, regulating development of various cancers (PubMed:23687415, PubMed:26594798).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.