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MVD Rabbit pAb

Catalog # AP99745

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P53602
Other Accession	P53602
Reactivity	Rat, Human, Mouse
Predicted	Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43405
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MVD
Epitope Specificity	201-300/400
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 diphosphomevalonate decarboxylase family.
SUBUNIT	Homodimer.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The enzyme mevalonate pyrophosphate decarboxylase (MVD) catalyzes the conversion of mevalonate pyrophosphate into isopentenyl pyrophosphate in one of the early steps in cholesterol biosynthesis. It decarboxylates and dehydrates its substrate while hydrolyzing ATP.

Additional Information

Gene ID	4597
Other Names	FP17780; MDDase; MPD; POROK7; Mvpd; MVD1_BOVIN; MVD; Mevalonate (diphospho)decarboxylase (MDDase); Mevalonate pyrophosphate decarboxylase; 4.1.1.33; MVD1_HUMAN; MVD1_MOUSE; MVD1_RAT; mevalonate diphosphate decarboxylase; mevalonate (diphospho) decarboxylase; diphosphomevalonate decarboxylase
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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	MVD
Synonyms	MPD {ECO:0000303|PubMed:14972328}
Function	Catalyzes the ATP dependent decarboxylation of (R)-5-diphosphomevalonate to form isopentenyl diphosphate (IPP). Functions in the mevalonate (MVA) pathway leading to isopentenyl diphosphate (IPP), a key precursor for the biosynthesis of isoprenoids and sterol synthesis.
Cellular Location	Cytoplasm.
Tissue Location	Expressed in heart, skeletal muscle, lung, liver, brain, pancreas, kidney and placenta.

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