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BPHL antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI14731

Product Information

Application	WB
Primary Accession	Q86WA6
Other Accession	NM_004332, NP_004323
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Rabbit, Pig, Chicken, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32543

Additional Information

Gene ID	670
Alias Symbol	BPH-RP, MCNAA, MGC125930, MGC41865, VACVASE
Other Names	Valacyclovir hydrolase, VACVase, Valacyclovirase, 3.1.-.-, Biphenyl hydrolase-like protein, Biphenyl hydrolase-related protein, Bph-rp, Breast epithelial mucin-associated antigen, MCNAA, BPHL, MCNAA
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-BPHL antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	BPHL antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

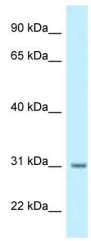
Name	BPHL
Synonyms	MCNAA
Function	Specific alpha-amino acid ester serine hydrolase that prefers small, hydrophobic, and aromatic side chains and does not have a stringent requirement for the leaving group other than preferring a primary alcohol (PubMed:12732646, PubMed:15832508, PubMed:18256025, PubMed:25333274, PubMed:32196348). Has homocysteine-thiolactonase activity (in vitro) and may play a significant role in the detoxification of homocysteine thiolactone in vivo (PubMed:25333274). Catalyzes the

	hydrolytic activation of amino acid ester prodrugs of nucleoside analogs such as valacyclovir and valganciclovir, converting them into their active forms (acyclovir and ganciclovir) (PubMed:15832508, PubMed:18256025).
Cellular Location	Mitochondrion.
Tissue Location	Expressed at high levels in liver and kidney and lower levels in heart, intestine and skeletal muscle

References

Puente X.S.,et al.J. Biol. Chem. 270:12926-12932(1995).
Puente X.S.,et al.Submitted (DEC-2003) to the EMBL/GenBank/DDBJ databases.
Mungall A.J.,et al.Nature 425:805-811(2003).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Larocca D.,et al.Cancer Res. 50:5925-5930(1990).

Images



WB Suggested Anti-BPHL Antibody Titration: 1.0 µg/ml
Positive Control: THP-1 Whole Cell

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