

# BPHL antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI14731

## Product Information

<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">Q86WA6</a>
<b>Other Accession</b>	<a href="#">NM_004332</a> , <a href="#">NP_004323</a>
<b>Reactivity</b>	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine
<b>Predicted</b>	Human, Rabbit, Pig, Chicken, Dog, Guinea Pig, Horse, Bovine
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	32543

## Additional Information

<b>Gene ID</b>	670
<b>Alias Symbol</b> <b>Other Names</b>	BPH-RP, MCNAA, MGC125930, MGC41865, VACVASE Valacyclovir hydrolase, VACVase, Valacyclovirase, 3.1.-., Biphenyl hydrolase-like protein, Biphenyl hydrolase-related protein, Bph-rp, Breast epithelial mucin-associated antigen, MCNAA, BPHL, MCNAA
<b>Format</b>	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
<b>Reconstitution &amp; Storage</b>	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.
<b>Precautions</b>	BPHL antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

<b>Name</b>	BPHL
<b>Synonyms</b>	MCNAA
<b>Function</b>	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: <a href="#">12732646</a> , PubMed: <a href="#">15832508</a> , PubMed: <a href="#">18256025</a> , PubMed: <a href="#">25333274</a> , PubMed: <a href="#">32196348</a> ). Has homocysteine-thiolactonase activity (in vitro) and may play a significant role in the detoxification of homocysteine thiolactone in vivo (PubMed: <a href="#">25333274</a> ). 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

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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

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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'.