

**BPHL antibody - N-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI14731****Specification**

---

**BPHL antibody - N-terminal region - Product Information**

|                   |                                                                |
|-------------------|----------------------------------------------------------------|
| Application       | WB                                                             |
| Primary Accession | <a href="#">Q86WA6</a>                                         |
| Other Accession   | <a href="#">NM_004332</a> , <a href="#">NP_004323</a>          |
| Reactivity        | Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog |
| Predicted         | Human, Rabbit, Pig, Chicken, Horse, Bovine, Guinea Pig, Dog    |
| Host              | Rabbit                                                         |
| Clonality         | Polyclonal                                                     |
| Calculated MW     | 30kDa kDa                                                      |

**BPHL antibody - N-terminal region - 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.

**BPHL antibody - N-terminal region - 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:<a href="http://www.uniprot.org/citations/12732646" target="\_blank">12732646</a>, PubMed:<a href="http://www.uniprot.org/citations/15832508" target="\_blank">15832508</a>, PubMed:<a href="http://www.uniprot.org/citations/18256025" target="\_blank">18256025</a>, PubMed:<a href="http://www.uniprot.org/citations/25333274" target="\_blank">25333274</a>, PubMed:<a href="http://www.uniprot.org/citations/32196348" target="\_blank">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="http://www.uniprot.org/citations/25333274" target="\_blank">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:<a href="http://www.uniprot.org/citations/15832508" target="\_blank">15832508</a>, PubMed:<a href="http://www.uniprot.org/citations/18256025" target="\_blank">18256025</a>).

### Cellular Location

Mitochondrion.

### Tissue Location

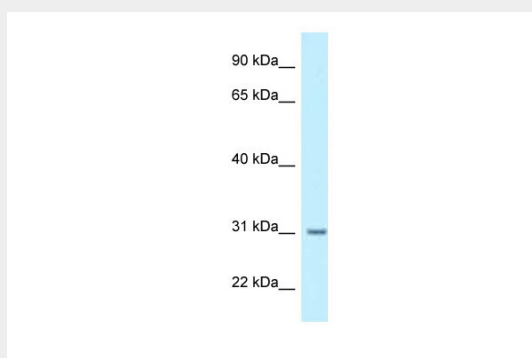
Expressed at high levels in liver and kidney and lower levels in heart, intestine and skeletal muscle

### BPHL antibody - N-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### BPHL antibody - N-terminal region - Images



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

### BPHL antibody - N-terminal region - 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).