

# Anti-ASPH Picoband Antibody

Catalog # ABO12166

## Product Information

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|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IHC-P, ICC                                                                                                                      |
| <b>Primary Accession</b> | <a href="#">Q12797</a>                                                                                                              |
| <b>Host</b>              | Rabbit                                                                                                                              |
| <b>Reactivity</b>        | Human, Mouse, Rat                                                                                                                   |
| <b>Clonality</b>         | Polyclonal                                                                                                                          |
| <b>Format</b>            | Lyophilized                                                                                                                         |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for Aspartyl/asparaginyl beta-hydroxylase(ASPH) detection. Tested with WB, IHC-P in Human;Mouse;Rat. |
| <b>Reconstitution</b>    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                |

## Additional Information

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| <b>Gene ID</b>                  | 444                                                                                                                                                                            |
| <b>Other Names</b>              | Aspartyl/asparaginyl beta-hydroxylase, 1.14.11.16, Aspartate beta-hydroxylase, ASP beta-hydroxylase, Peptide-aspartate beta-dioxygenase, ASPH, BAH                             |
| <b>Calculated MW</b>            | 85863                                                                                                                                                                          |
| <b>Application Details</b>      | Immunohistochemistry(Paraffin-embedded Section), 0.5-1 $\mu$ g/ml, Human, By Heat<br>Western blot, 0.1-0.5 $\mu$ g/ml, Human, Mouse, Rat                                       |
| <b>Subcellular Localization</b> | Isoform 1: Endoplasmic reticulum membrane; Single-pass type II membrane protein .                                                                                              |
| <b>Tissue Specificity</b>       | Isoform 1 is detected in all tissues tested. Isoform 8 is mainly expressed in pancreas, heart, brain, kidney and liver. Isoform 8 is expressed in kidney (at protein level). . |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                      |
| <b>Protein Name</b>             | Aspartyl/asparaginyl beta-hydroxylase                                                                                                                                          |
| <b>Contents</b>                 | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .                                                                     |
| <b>Immunogen</b>                | A synthetic peptide corresponding to a sequence at the C-terminus of human ASPH (726-758aa EVWQDASSFRLIFVDVWHPELTPQRRSLPAI), identical to the related mouse sequence.          |

|                              |                                                                                                                                                                                     |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purification</b>          | Immunogen affinity purified.                                                                                                                                                        |
| <b>Cross Reactivity</b>      | No cross reactivity with other proteins                                                                                                                                             |
| <b>Storage</b>               | At -20° C for one year. After r° Constitution, at 4° C for one month. It° Can also be aliquotted and stored frozen at -20° C for a longer time.Avoid repeated freezing and thawing. |
| <b>Sequence Similarities</b> | Belongs to the aspartyl/asparaginyl beta-hydroxylase family.                                                                                                                        |

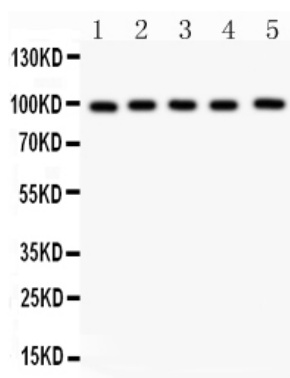
## Protein Information

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|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>              | ASPH                                                                                                                                                                                                 |
| <b>Synonyms</b>          | BAH                                                                                                                                                                                                  |
| <b>Function</b>          | [Isoform 1]: Specifically hydroxylates an Asp or Asn residue in certain epidermal growth factor-like (EGF) domains of a number of proteins.                                                          |
| <b>Cellular Location</b> | [Isoform 1]: Endoplasmic reticulum membrane; Single-pass type II membrane protein {ECO:0000250   UniProtKB:Q28056} [Isoform 8]: Endoplasmic reticulum membrane; Single-pass type II membrane protein |
| <b>Tissue Location</b>   | Isoform 1 is detected in all tissues tested. Isoform 8 is mainly expressed in pancreas, heart, brain, kidney and liver. Isoform 8 is expressed in kidney (at protein level)                          |

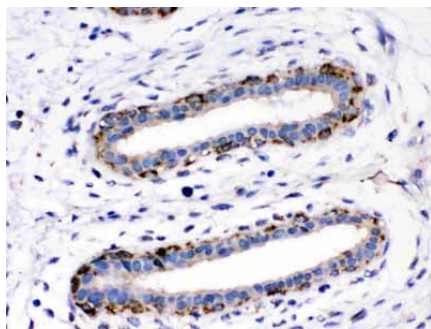
## Background

ASPH is also known as Aspartyl/asparaginyl beta-hydroxylase. This gene is thought to play an important role in calcium homeostasis. And the gene is expressed from two promoters and undergoes extensive alternative splicing. The encoded set of proteins share varying amounts of overlap near their N-termini but have substantial variations in their C-terminal domains resulting in distinct functional properties. The longest isoforms (a and f) include a C-terminal Aspartyl/Asparaginyl beta-hydroxylase domain that hydroxylates aspartic acid or asparagine residues in the epidermal growth factor (EGF)-like domains of some proteins, including protein C, coagulation factors VII, IX, and X, and the complement factors C1R and C1S. Other isoforms differ primarily in the C-terminal sequence and lack the hydroxylase domain, and some have been localized to the endoplasmic and sarcoplasmic reticulum. Some of these isoforms are found in complexes with calsequestrin, triadin, and the ryanodine receptor, and have been shown to regulate calcium release from the sarcoplasmic reticulum. Some isoforms have been implicated in metastasis.

## Images



Anti- ASPH Picoband antibody, ABO12166, Western blotting  
 All lanes: Anti ASPH (ABO12166) at 0.5ug/ml  
 Lane 1: Rat Brain Tissue Lysate at 50ug  
 Lane 2: Rat Liver Tissue Lysate at 50ug  
 Lane 3: HELA Whole Cell Lysate at 40ug  
 Lane 4: HEPG2 Whole Cell Lysate at 40ug  
 Lane 5: HEPA Whole Cell Lysate at 40ug  
 Predicted bind size: 86KD  
 Observed bind size: 100KD



Anti- ASPH Picoband antibody, ABO12166,IHC(P)IHC(P):  
Human Mammary Cancer Tissue

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