

Datasheet for ABIN2810000

## **anti-Aspartate beta Hydroxylase antibody (AA 301-400) (AbBy Fluor® 594)**



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### Overview

|                      |                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------|
| Quantity:            | 100 µL                                                                                                  |
| Target:              | Aspartate beta Hydroxylase (ASPH)                                                                       |
| Binding Specificity: | AA 301-400                                                                                              |
| Reactivity:          | Human                                                                                                   |
| Host:                | Rabbit                                                                                                  |
| Clonality:           | Polyclonal                                                                                              |
| Conjugate:           | This Aspartate beta Hydroxylase antibody is conjugated to AbBy Fluor® 594                               |
| Application:         | Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

### Product Details

|                       |                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------|
| Immunogen:            | KLH conjugated synthetic peptide derived from human ASPH/Aspartate beta hydroxylase |
| Isotype:              | IgG                                                                                 |
| Predicted Reactivity: | Human,Mouse,Rat,Cow,Horse,Chicken,Rabbit                                            |
| Purification:         | Purified by Protein A.                                                              |

### Target Details

|                   |                                                                                   |
|-------------------|-----------------------------------------------------------------------------------|
| Target:           | Aspartate beta Hydroxylase (ASPH)                                                 |
| Alternative Name: | ASPH/Aspartate beta hydroxylase ( <a href="#">ASPH Products</a> )                 |
| Background:       | Synonyms: ASP beta hydroxylase, Aspartyl/asparaginyl beta hydroxylase, ASPH, BAH, |

## Target Details

CASQ2BP1, HAAH, JCTN, junctin, Peptide aspartate beta dioxygenase, ASPH\_HUMAN.

Background: Aspartyl/asparaginyl beta-hydroxylase (ASPH) is a widely-expressed type II membrane protein involved in calcium homeostasis. Located in the endoplasmic reticulum, ASPH specifically hydroxylates an Asp or Asn residue in the epidermal growth factor-like (EGF) domains of several proteins, using iron as a cofactor. The ASPH gene encodes 3 proteins, ASPH, Junctin, and Junctate (or Humbug), that differ significantly in their C-terminal domains. These ASPH gene products are expressed as five transcript variants that differ by their roles in calcium storage and release, hydroxylation capabilities, and tissue specificity. While all ASPH variants are expressed in skeletal muscle, only some are detected in heart, brain, pancreas, placenta, lung, liver, and kidney tissues. In the lumen of the endoplasmic reticulum, ASPH can be processed into two different forms.

Pathways: [Positive Regulation of Endopeptidase Activity](#)

## Application Details

Application Notes: IF(IHC-P) 1:50-200  
IF(IHC-F) 1:50-200  
IF(ICC) 1:50-200

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Expiry Date: 12 months