ASPH Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ASPH, Polyclonal Antibody
Full Product Name	ASPH, ID (ASPH, Aspartyl/asparaginyl beta-hydroxylase, Aspartate beta-hydroxylase, Peptide-aspartate beta-dioxygenase) (MaxLight 490)
Product Gene Name	anti-ASPH antibody
Product Synonym Names	ASPH; Aspartyl/asparaginyl beta-hydroxylase; Aspartate beta-hydroxylase; Peptide-aspartate beta-dioxygenase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	28,926 Da
OMIM	600582
3D Structure	ModBase 3D Structure for Q12797
Immunogen	ASPH antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 301-331 amino acids from the Central region of human ASPH.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-ASPH antibody	Antibodies; Enzymes; Oxidase
Applications Tested/Suitable for anti-ASPH antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-ASPH antibody	IHC: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.

Related Product Information for anti-ASPH antibody	This gene is thought to play an important role in calcium homeostasis. 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.
Product References and Citations for anti-ASPH antibody	Xue, T., et al. Hybridoma (Larchmt) 28(4):251-257(2009). Luu, M., et al. Hum. Pathol. 40(5):639-644(2009). Finotti, A., et al. BMC Mol. Biol. 9, 110 (2008): Beausoleil, S.A., et al. Proc. Natl. Acad. Sci. U.S.A. 101(33):12130-12135(2004). Treves, S., et al. J. Cell Biol. 166(4):537-548(2004).
Other Notes	Small volumes of anti-ASPH antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ASPH purchase	MBS6275705 is an antibody targeting ASPH. Also known as ASPH, ID (ASPH, Aspartyl/asparaginyl beta-hydroxylase, Aspartate beta-hydroxylase, Peptide-aspartate beta-dioxygenase) (MaxLight 490). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ASPH. It may not necessarily be applicable to this product.

NCBI GI #	14589866
NCBI GeneID	444
NCBI Accession #	NP_004309.2
NCBI Related Accession #	NP_001158222.1
UniProt Primary Accession #	Q12797
UniProt Secondary Accession #	Q6NXR7; Q8TB28; Q9H291; Q9H2C4; A6NDF4; A6NHI2; B4DIC9; B4E2K4; B7ZM95; E5RGP5; F5H667
UniProt Related Accession #	Q12797
GenBank Nucleotide #	NM_004318.3
NCBI Official Full Name	aspartyl/asparaginyl beta-hydroxylase isoform a
NCBI Official Synonym Full Names	aspartate beta-hydroxylase
NCBI Official Symbol	ASPH
NCBI Official Synonym Symbols	AAH; BAH; HAAH; JCTN; FDLAB; junctin; CASQ2BP1
UniProt Protein Name	Aspartyl/asparaginyl beta-hydroxylase
UniProt Synonym Protein Names	Aspartate beta-hydroxylase; ASP beta-hydroxylase; Peptide-aspartate beta-dioxygenase
Protein Family	Aspartyl/asparaginyl beta-hydroxylase
UniProt Gene Name	ASPH
UniProt Synonym Gene Names	BAH; ASP beta-hydroxylase
UniProt Entry Name	ASPH_HUMAN
NCBI Protein Information	aspartyl/asparaginyl beta-hydroxylase

UniProt Comments for ASPH	ASPH: Isoform 1: specifically hydroxylates an Asp or Asn residue in certain epidermal growth factor-like (EGF) domains of a number of proteins. Belongs to the aspartyl/asparaginyl beta-hydroxylase family. 9 isoforms of the human protein are produced by alternative splicing. Protein type: Oxidoreductase; Membrane protein, integral; EC 1.14.11.16 Chromosomal Location of Human Ortholog: 8q12.1 Cellular Component: endoplasmic reticulum membrane; sarcoplasmic reticulum membrane; sarcoplasmic reticulum lumen; endoplasmic reticulum; integral to membrane; plasma membrane; integral to endoplasmic reticulum membrane Molecular Function: protein binding; electron carrier activity; structural constituent of muscle; calcium ion binding; structural molecule activity; peptide-aspartate beta-dioxygenase activity Biological Process: peptidyl-aspartic acid hydroxylation; negative regulation of cell proliferation; activation of store-operated calcium channel activity; muscle contraction; positive regulation of proteolysis; positive regulation of transcription, DNA-dependent; regulation of protein stability; regulation of inositol-1,4,5-triphosphate receptor activity; palate development; detection of calcium ion; pattern specification process; limb morphogenesis; response to ATP
Research Articles on ASPH	**1.** Higher levels of HAAH/humbug mRNA were found in the hepatocellular carcinoma tissues relative to the adjacent cancerfree tissue.
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