



Anti-ASPH monoclonal antibody (DCABH-10644)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description

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.

Immunogen	A synthetic peptide of human ASPH is used for rabbit immunization.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Protein A
Conjugate	Unconjugated
Applications	Western Blot (Transfected lysate); ELISA
Size	100 µl
Buffer	In 1x PBS, pH 7.4

Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	ASPH aspartate beta-hydroxylase [Homo sapiens]
Official Symbol	ASPH
Synonyms	ASPH; aspartate beta-hydroxylase; aspartyl/asparaginyl beta-hydroxylase; BAH; CASQ2BP1; HAAH; humbug; JCTN; junctate; junctin; A beta H-J-J; cardiac junctin; ASP beta-hydroxylase; peptide-aspartate beta-dioxygenase; aspartyl/asparaginyl-beta-hydroxylase; AAH;
Entrez Gene ID	444
Protein Refseq	NP_001158222
UniProt ID	Q12797
Chromosome Location	8q12.1
Function	binding; calcium ion binding; calcium ion binding; electron carrier activity; oxidoreductase activity; oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen; peptide-aspartate beta-di