



Anti-ADSL monoclonal antibody (DCABH-10446)

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

PRODUCT INFORMATION

Antigen Description Adenylosuccinate lyase is involved in both de novo synthesis of purines and formation of adenosine monophosphate from inosine monophosphate. It catalyzes two reactions in AMP biosynthesis: the removal of a fumarate from succinylaminoimidazole carboxamide (SAICA) ribotide to give aminoimidazole carboxamide ribotide (AICA) and removal of fumarate from adenylosuccinate to give AMP. Adenylosuccinase deficiency results in succinylpurinemic autism, psychomotor retardation, and , in some cases, growth retardation associated with muscle wasting and epilepsy. Two transcript variants encoding different isoforms have been found for this gene.

Immunogen	A synthetic peptide of human ADSL 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	1 ea
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	ADSL adenylosuccinate lyase [Homo sapiens]
Official Symbol	ADSL
Synonyms	ADSL; adenylosuccinate lyase; adenylosuccinase; ASL; AMPS; ASASE;

Entrez Gene ID	158
Protein Refseq	NP_000017
UniProt ID	P30566
Chromosome Location	22q13.1
Pathway	Alanine, aspartate and glutamate metabolism, organism-specific biosystem; Alanine, aspartate and glutamate metabolism, conserved biosystem; Inosine monophosphate biosynthesis, PRPP + glutamine => IMP, organism-specific biosystem; Inosine monophosphate biosynthesis, PRPP + glutamine => IMP, conserved biosystem; Metabolic pathways, organism-specific biosystem;
Function	(S)-2-(5-amino-1-(5-phospho-D-ribosyl)imidazole-4-carboxamido)succinate AMP-lyase (fumarate-forming) activity; N6-(1,2-dicarboxyethyl)AMP AMP-lyase (fumarate-forming) activity; NOT N6-(1,2-dicarboxyethyl)AMP AMP-lyase (fumarate-forming) activity; N6-(1,2-