



Anti-ADSL monoclonal antibody, clone 3E21 (DCABH-858)

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

PRODUCT INFORMATION

Product Overview	Mouse monoclonal to Adenylosuccinate Lyase
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	Recombinant full length Human Adenylosuccinate Lyase produced in HEK293T cells (NP_000017).
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Rat, Dog, Human, Monkey
Clone	3E21
Purification	This antibody was purified from mouse ascites fluids by affinity chromatography.
Conjugate	Unconjugated
Applications	WB, IHC-P, Flow Cyt
Positive Control	HEK293T cell lysate transfected with pCMV6-ENTRY Adenylosuccinate Lyase cDNA; HepG2, Hela, HT29, A549, COS7, Jurkat, MDCK, PC12 and MCF7 cell extracts; Human kidney, kidney

carcinoma, liver, lung carcinoma, ovary adenocarcinoma, endometrium adenocarcinoma

Format	Liquid
Size	100 µl
Buffer	pH: 7.30; Preservative: 0.02% Sodium azide; Constituents: 48% PBS, 1% BSA, 50% Glycerol
Preservative	0.02% Sodium Azide
Storage	store at -20°C. Avoid repeated freeze / thaw cycles.
Ship	Shipped at 4°C.

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-