

ALAD mouse monoclonal antibody (hybridoma)

Catalog # H00000210-M

Size Up to 5 Clones

Specification

Product Description	Mouse monoclonal antibody raised against a full-length recombinant ALAD.
Immunogen	ALAD (NP_000022.2, 1 a.a. ~ 339 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MPLCPLAHAMQPQSVLHSGYFHLLRAWQTATTTLNASNLIPIFVTDVPDDIQPITSLPGVARYGV KRLEEMLRPLVEEGLRCVLIFGVPSRVPKDERGSAADSEESPAIEAIHLRKTFFNLLVACDVCLC PYTSHGHCGLLSENGAFRAEESRQRLAEVALAYAKAGCQVVAPSDMMDGRVEAIKEALMAHGL GNRVSVMSYSAKFASCFYGPFRDAAKSSPAFGDRRCYQLPPGARGLALRAVDRDVREGADML MVKPGMPYLDIVREVKDKHPDLPLAVYHVSGEFAMLWHGAQAGAFDLKAAVLEAMTAFRRAGA DIIITYYTPQLLQWLKEE
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (89); Rat (88)
Quality Control Testing	Antibody reactivity and specificity confirmed by ELISA and Western Blot.
Deliverables	Up to 5 positive hybridoma clones will be delivered to customer in the cryotube format.
Note	Customer should check the viability of the hybridomas within one month from the date of receipt. Fee -for-service of long term hybridoma storage can be performed upon customer's request.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

Gene Info — ALAD

Entrez GeneID	210
GeneBank Accession#	NM_000031.4
Protein Accession#	NP_000022.2
Gene Name	ALAD
Gene Alias	ALADH, MGC5057, PBGS
Gene Description	aminolevulinate, delta-, dehydratase
Omim ID	125270
Gene Ontology	Hyperlink
Gene Summary	The ALAD enzyme is composed of 8 identical subunits and catalyzes the condensation of 2 molecules of delta-aminolevulinate to form porphobilinogen (a precursor of heme, cytochromes and other hemoproteins). ALAD catalyzes the second step in the porphyrin and heme biosynthetic pathway; zinc is essential for enzymatic activity. ALAD enzymatic activity is inhibited by lead and a defect in the ALAD structural gene can cause increased sensitivity to lead poisoning and acute hepatic porphyria. [provided by RefSeq]
Other Designations	aminolevulinate dehydratase delta-aminolevulinic acid dehydratase porphobilinogen synthase

Pathway

- [Metabolic pathways](#)
- [Porphyrin and chlorophyll metabolism](#)

Disease

- [Amyotrophic lateral sclerosis](#)
- [Bone Resorption](#)
- [Brain Neoplasms](#)
- [Cognition](#)

- [Cognition Disorders](#)
- [DNA Damage](#)
- [Essential tremor](#)
- [Genetic Predisposition to Disease](#)
- [Glioma](#)
- [Hypertension](#)
- [Kidney Diseases](#)
- [Kidney Failure](#)
- [Lead Poisoning](#)
- [Lung Neoplasms](#)
- [Meningioma](#)
- [Mental Disorders](#)
- [Mental Recall](#)
- [Mental Status Schedule](#)
- [Motor Skills](#)
- [Neuropsychological Tests](#)
- [Occupational Diseases](#)
- [Psychomotor Performance](#)
- [Pulmonary Disease](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)