

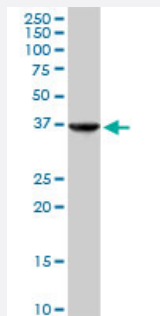
MaxPab®

ALAD purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00000210-D01P

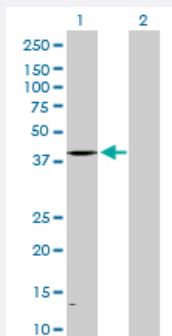
Size 100 ug

Applications



Western Blot (Tissue lysate)

ALAD MaxPab rabbit polyclonal antibody. Western Blot analysis of ALAD expression in human liver.



Western Blot (Transfected lysate)

Western Blot analysis of ALAD expression in transfected 293T cell line ([H00000210-T02](#)) by ALAD MaxPab polyclonal antibody.

Lane 1: ALAD transfected lysate(37.20 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

Rabbit polyclonal antibody raised against a full-length human ALAD protein.

Immunogen

ALAD (NP_000022.2, 1 a.a. ~ 339 a.a) full-length human protein.

Sequence

MPLCPLAHAMQPQSVLHSGYFHPLLRWQTATTTLNASNLPIFVTDVPDDIQPITSLPGVARYGV
KRLEEMLRPLVEEGLRCVLIFGVPSRVPKDERGSAADSEESPAIEAIHLLRKTFPNLLVACDVCLC
PYTSHGHCGLLSENGAFRAEESRQRLAEVALAYAKAGCQVVAPSDMMDGRVEAIKEALMAHGL
GNRVSVMSYSAKFASCFYGPFRDAAKSSPAFGDRRCYQLPPGARGLALRAVDRDVREGADML
MVKPGMPYLDIVREVKDKHPDLPLAVYHVSGEFAMLWHGAQAGAFDLKAAVLEAMTAFRRAGA
DIIITYYTPQLLQWLKEE

Host

Rabbit

Reactivity	Human
Interspecies Antigen Sequence	Mouse (89); Rat (88)
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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[Protocol Download](#)

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Gene Info — ALAD

Entrez GeneID	210
GeneBank Accession#	NM_000031
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

Publication Reference

- [Vitamin D3 enhances the apoptotic response of epithelial tumors to aminolevulinate-based photodynamic therapy.](#)

Anand S, Wilson C, Hasan T, Maytin EV.

Cancer Research 2011 Sep; 71(18):6040.

Application: WB-Ti, Human, A-431 tumor lysates

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](#)