

Rabbit anti-Human ALAS1 Monoclonal Antibody | anti-ALAS1 antibody

ALAS1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA312141	Rabbit	Human	Immunofluorescence, Immunocytochemistry, Western Blot

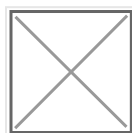
PRODUCT SYNONYMS

ALAS1; Monoclonal Antibody; ALAS1 Antibody; 5 aminolevulinate synthase antibody; 5 aminolevulinate synthase nonspecific mitochondrial antibody; 5 aminolevulinic acid synthase antibody; 5-aminolevulinate synthase antibody; 5-aminolevulinic acid synthase 1 antibody; Alas 1 antibody; ALAS 3 antibody; ALAS antibody; ALAS H antibody; ALAS HOUSEKEEPING TYPE antibody; ALAS N antibody; ALAS-H antibody; alaS1 antibody; ALAS3 antibody; ALASH antibody; Aminolevulinate delta synthase 1 antibody; Aminolevulinic acid synthase 1 antibody; Delta ALA synthetase antibody; Delta aminolevulinate synthase antibody; Delta-ALA synthase 1 antibody; Delta-aminolevulinate synthase 1 antibody; HEM1_HUMAN antibody; MIG 4 antibody; MIG4 antibody; Migration inducing protein 4 antibody; mitochondrial antibody; nonspecific antibody; anti-ALAS1 antibody

PRODUCT SPECIFICATIONS

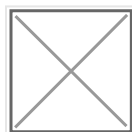
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Clone Number	SA70-04
Purity/Purification	ProA affinity purified
Form/Format	1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Applicable Applications for anti-ALAS1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant protein
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C.

IMAGES



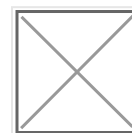
ICC (Immunocytochemistry)

ICC staining Alas1 in MCF-7 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



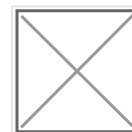
ICC (Immunocytochemistry)

ICC staining Alas1 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC (Immunocytochemistry)

ICC staining Alas1 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



WB (Western Blot)

Western blot analysis of Alas1 on different cell lysates using anti-Alas1 antibody at 1/1, 000 dilution. Positive control: Lane 1: JAR Lane 2: HUVEC Lane 3: HeLa

ADDITIONAL INFORMATION

Related Product Information for anti-ALAS1 antibody	5-aminolevulinate synthase 1 (ALAS-H) and 2 (ALAS-E) are two isoforms of ALAS, an enzyme catalyzing the first step of the heme biosynthetic pathway in mammals. The erythroid-specific isoenzyme, ALAS-E, regulates the first step of hematopoietic cell differentiation and iron metabolism in the liver. ALAS-H is a housekeeping protein which mediates synthesis of early heme in the mitochondria of most cells. Succinyl CoA associates with ALAS-E in protein conformation change and translocation of ALAS-E into the mitochondria and does not interact with ALAS-H. The ALAS-E 5'-flanking region contains binding sites for nuclear activators such as GATA-1, NF-E2 and EKLF. Since the ALAS gene maps to the X chromosome, mutation of the gene leads to the pyridoxine-refractory X-linked sideroblastic anemia.
Product Categories/Family for anti-ALAS1 antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502025
NCBI GeneID	211
NCBI Accession #	NP_000679.1
NCBI GenBank Nucleotide #	NM_000688.5
UniProt Accession #	P13196
Molecular Weight	12,961 Da
NCBI Official Full Name	5-aminolevulinate synthase, nonspecific, mitochondrial
NCBI Official Synonym Full Names	5'-aminolevulinate synthase 1
NCBI Official Symbol	ALAS1
NCBI Official Synonym Symbols	ALAS; MIG4; ALAS3; ALASH
NCBI Protein Information	5-aminolevulinate synthase, nonspecific, mitochondrial; ALAS-H; delta-ALA synthase 1; migration-inducing protein 4; 5-aminolevulinic acid synthase 1; delta-aminolevulinate synthase 1; aminolevulinate, delta-, synthase 1
UniProt Protein Name	5-aminolevulinate synthase, nonspecific, mitochondrial
UniProt Gene Name	ALAS1
UniProt Synonym Gene Names	ALAS3; ALASH; ALAS-H
UniProt Entry Name	HEM1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/alas1-antibody-clone-sa70-04-immunofluorescence-immunocytochemistry-western-blot-elisa/312141>