

## ALAS2 Conjugated Antibody

Catalog No: #C48271



Package Size: #C48271-AF350 100ul #C48271-AF405 100ul #C48271-AF488 100ul  
 #C48271-AF555 100ul #C48271-AF594 100ul #C48271-AF647 100ul  
 #C48271-AF680 100ul #C48271-AF750 100ul #C48271-Biotin 100ul

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## Description

Product Name	ALAS2 Conjugated Antibody
Host Species	Mouse
Clonality	Monoclonal
Species Reactivity	Hu, Ms, Rt
Immunogen Description	peptide
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	5 @aminolevulinate synthase erythroid specific antibody 5 aminolevulinate synthase 2 antibody 5 aminolevulinate synthase 5 aminolevulinate synthase 2 antibody 5 aminolevulinate synthase erythroid specific mitochondrial antibody 5 aminolevulinic acid synthase 2 antibody 5 aminolevulinic acid synthase antibody 5-aminolevulinate synthase antibody 5-aminolevulinic acid synthase 2 antibody Alas 2 antibody ALAS antibody ALAS E antibody ALAS, erythroid antibody ALAS-E antibody Alas2 antibody ALASE antibody Aminolevulinate delta synthase 2 antibody Aminolevulinic acid synthase 2, erythroid antibody ANH1 antibody ASB antibody Delta ALA synthase 2 antibody Delta ALA synthetase antibody Delta aminolevulinate synthase 2 antibody Delta aminolevulinate synthase antibody Delta-ALA synthase 2 antibody Delta-aminolevulinate synthase 2 antibody Erythroid specific ALAS antibody erythroid-specific antibody FLJ93603 antibody HEM0_HUMAN antibody mitochondrial antibody OTTHUMP00000023388 antibody OTTHUMP00000023389 antibody OTTMUSP00000020679 antibody RP23-338A17.1 antibody SIDBA1 antibody XLDPP antibody XLEPP antibody XLSA antibody
Accession No.	Swiss-Prot#:P22557
Uniprot	P22557
GeneID	212;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	60 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

## Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

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## Background

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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.

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Note: This product is for in vitro research use only