

Product datasheet for **CF808177**

ALAS1 Mouse Monoclonal Antibody [Clone ID: OT11C5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OT11C5
Applications:	WB
Recommended Dilution:	WB 1:2000
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 57-308 of human ALAS1(NP_000679) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	70.4 kDa
Gene Name:	5'-aminolevulinate synthase 1
Database Link:	NP_000679 Entrez Gene 11655 Mouse Entrez Gene 65155 Rat Entrez Gene 211 Human P13196



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Background:

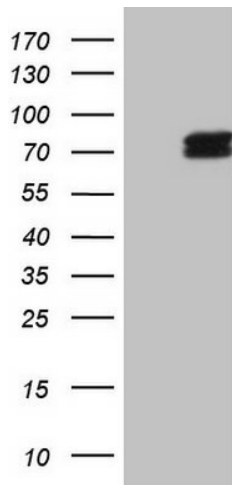
This gene encodes the mitochondrial enzyme which catalyzes the rate-limiting step in heme (iron-protoporphyrin) biosynthesis. The enzyme encoded by this gene is the housekeeping enzyme; a separate gene encodes a form of the enzyme that is specific for erythroid tissue. The level of the mature encoded protein is regulated by heme: high levels of heme down-regulate the mature enzyme in mitochondria while low heme levels up-regulate. A pseudogene of this gene is located on chromosome 12. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Dec 2011]

Synonyms:

ALAS; ALAS-H; ALAS3; ALASH; MIG4

Protein Pathways:

Glycine, serine and threonine metabolism, Metabolic pathways, Porphyrin and chlorophyll metabolism

Product images:

HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ALAS1 (Cat# [RC219938], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ALAS1 (Cat# [TA808177])(1:2000). Positive lysates [LY400229] (100ug) and [LC400229] (20ug) can be purchased separately from OriGene.