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ALAS2/ASB Rabbit mAb

Catalog # AP75047

Product Information

Application	WB, IP
Primary Accession	P22557
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	64633

Additional Information

Gene ID	212
Other Names	ALAS2
Dilution	WB~~1:500-1:1000 IP~~1:20-1:50
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

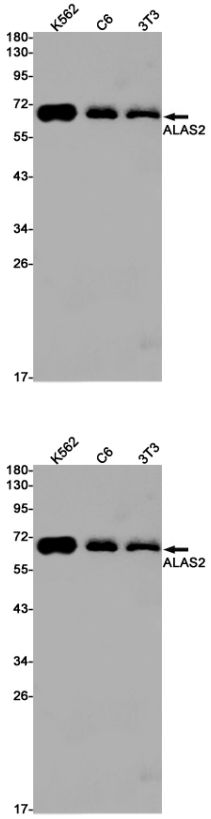
Name	ALAS2 {ECO:0000303|PubMed:34492704, ECO:0000312|HGNC:HGNC:397}
Function	Catalyzes the pyridoxal 5'-phosphate (PLP)-dependent condensation of succinyl-CoA and glycine to form aminolevulinic acid (ALA), with CoA and CO2 as by-products (PubMed:14643893, PubMed:21252495, PubMed:21309041, PubMed:21653323, PubMed:32499479, PubMed:34492704). Contributes significantly to heme formation during erythropoiesis (PubMed:2050125).
Cellular Location	Mitochondrion inner membrane; Peripheral membrane protein. Note=Localizes to the matrix side of the mitochondrion inner membrane.
Tissue Location	[Isoform 1]: Erythroid-specific. [Isoform 3]: Erythroid-specific.

Background

MiscellaneousThere are two delta-ALA synthases in vertebrates: an erythroid- specific form and one

(housekeeping) which is expressed in all tissues.

Images



Western blot analysis of ALAS2 in K562, C6, 3T3 lysates using ALAS2 antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.