

## ALAS1

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**Reactivity:**Human

**Tested applications:**WB IHC IF

**Recommended Dilution:**WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:10 - 1:100

**Calculated MW:**70kDa

**Observed MW:**Refer to figures

**Immunogen:**

Recombinant protein of human ALAS1

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Synonym:**

ALAS; MIG4; ALAS3; ALASH;

**Catalog #:**A6521

**Antibody Type:**

Polyclonal Antibody

**Species:**Rabbit

**Gene ID:**211

**Isotype:**IgG

**Swiss Prot:**P13196

**Purity:**Affinity purification

For research use only.

**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.

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