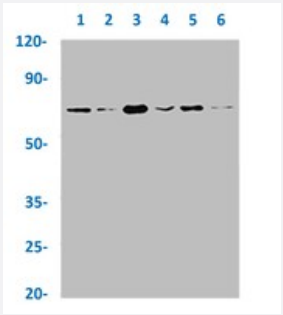
RecomAb™ Sm Size

# ALAS1 recombinant monoclonal antibody, clone 2A9

Catalog # RAB08294 Size 50 uL

## Applications




### Western Blot

Western blot analysis of
Lane 1: Hela whole cell lysate,
Lane 2: HepG2 whole cell lysate,
Lane 3: Raji whole cell lysate,
Lane 4: PC3 whole cell lysate,
Lane 5: A549 whole cell lysate and
Lane 6: MCF-7 whole cell lysate with ALAS1 recombinant monoclonal antibody.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against human ALAS1. |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against a synthetic peptide corresponding to human ALAS1. |
| **Theoretical MW (kDa)** | Calculated MW: 71, 1 |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purification** | Affinity chromatography |
| **Isotype** | IgG |

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| | |
|---|---|
| **Recommend Usage** | ELISA<br>Western Blot (1:500-1:5000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, pH7.4 (150 mM NaCl, 50% glycerol and 0.02% sodium azide) |
| **Storage Instruction** | Store at -20°C or -80°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Enzyme-linked Immunoabsorbent Assay

- Western Blot

  Western blot analysis of
  Lane 1: Hela whole cell lysate,
  Lane 2: HepG2 whole cell lysate,
  Lane 3: Raji whole cell lysate,
  Lane 4: PC3 whole cell lysate,
  Lane 5: A549 whole cell lysate and
  Lane 6: MCF-7 whole cell lysate with ALAS1 recombinant monoclonal antibody.

## Gene Info — ALAS1

| | |
|---|---|
| **Entrez GeneID** | 211 |
| **Protein Accession#** | P13196 |
| **Gene Name** | ALAS1 |
| **Gene Alias** | ALAS, ALAS3, ALASH, MIG4 |
| **Gene Description** | aminolevulinate, delta-, synthase 1 |
| **Omim ID** | 125290 |
| **Gene Ontology** | Hyperlink |

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| | |
|---|---|
| **Gene Summary** | Delta-aminolevulinate synthase (ALAS; EC 2.3.1.37) catalyzes the condensation of glycine with s uccinyl-CoA to form delta-aminolevulinic acid. This nuclear-encoded mitochondrial enzyme is the f irst and rate-limiting enzyme in the mammalian heme biosynthetic pathway. There are 2 tissue-sp ecific isozymes: a housekeeping enzyme encoded by the ALAS1 gene and an erythroid tissue-sp ecific enzyme encoded by ALAS2 (MIM 301300).[supplied by OMIM |
| **Other Designations** | aminolevulinate, delta, synthase 1\|migration-inducing protein 4 |

## Pathway

- Glycine
- Metabolic pathways
- Porphyrin and chlorophyll metabolism

## Disease

- Cardiovascular Diseases
- Diabetes Mellitus
- Edema

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