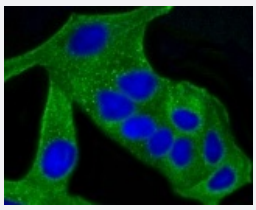
RecomAb™

# ALAS1 recombinant monoclonal antibody

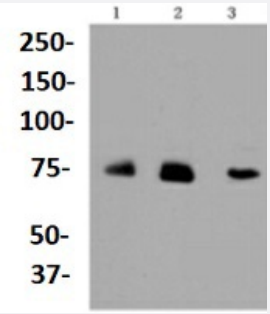
Catalog # RAB02667 Size 100 uL

## Applications



### Immunocytochemistry

Immunocytochemical staining of HeLa cells using ALAS1 recombinant monoclonal antibody (Cat # RAB02667)(green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.




### Western Blot (Cell lysate)

Western blot analysis of Lane1:JAR whole cell lysate Lane2:HUVEC whole cell lysate Lane3:Hela whole cell lysate with ALAS1 recombinant monoclonal antibody (Cat # RAB02667) at 1:1000 dilution.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against ALAS1. |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against recombinant ALAS1. |
| **Theoretical MW (kDa)** | 71 |
| **Reactivity** | Human |
| **Specificity** | This antibody detects endogenous levels of ALAS and does not cross-react with related proteins. |

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| | |
|---|---|
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purification** | Protein A purification |
| **Isotype** | IgG |
| **Recommend Usage** | Immunocytochemistry (1:50-1:200)<br>Immunofluorescence (1:50-1:200)<br>Western Blot (1:1000-1:5000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS , pH7.2 (0.02% sodium azide and 50% glycerol) |
| **Storage Instruction** | Store at 4°C short term.<br>Aliquot and store at -20°C long term.<br>Avoid freeze-thaw cycles. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Immunofluorescence
- Immunocytochemistry

  Immunocytochemical staining of HeLa cells using ALAS1 recombinant monoclonal antibody (Cat # RAB02667)(green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.

- Western Blot (Cell lysate)

  Western blot analysis of Lane1:JAR whole cell lysate Lane2:HUVEC whole cell lysate Lane3:Hela whole cell lysate with ALAS1 recombinant monoclonal antibody (Cat # RAB02667) at 1:1000 dilution.

## Gene Info — ALAS1

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

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| | |
|---|---|
| **Omim ID** | 125290 |
| **Gene Ontology** | Hyperlink |
| **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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