

## Mouse anti-Human SAR1B Monoclonal Antibody | anti-SAR1B antibody

SAR1B antibody

| CATALOG # | HOST  | REACTIVITY | APPLICATIONS                                                                                   |
|-----------|-------|------------|------------------------------------------------------------------------------------------------|
| AAA48112  | Mouse | Human      | Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA |

### PRODUCT SYNONYMS

SAR1B; Monoclonal Antibody; SAR1B antibody; GTP-binding protein SAR1b; ANDD; CMRD; GTBPB; SARA2; anti-SAR1B antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                 |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                                           |
| Reactivity                                      | Human                                                                                                                                                                           |
| Clonality                                       | Monoclonal                                                                                                                                                                      |
| Isotype                                         | IgG1,k                                                                                                                                                                          |
| Clone Number                                    | AT1C7                                                                                                                                                                           |
| Purity/Purification                             | By protein-A affinity chromatography                                                                                                                                            |
| Form/Format                                     | Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.                                                                                            |
| Concentration                                   | 1mg/ml (varies by lot)                                                                                                                                                          |
| Sequence Length                                 | 198                                                                                                                                                                             |
| Applicable Applications for anti-SAR1B antibody | IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA                                                                         |
| Antigen Species                                 | Human                                                                                                                                                                           |
| Immunogen                                       | Recombinant human SAR1B (1-198aa) purified from E. coli                                                                                                                         |
| Clone Note                                      | Anti-human SAR1B mAb, clone AT1C7, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human SAR1B protein. |
| Preparation and Storage                         | Can be stored at 4 degree C.<br>For long term storage, aliquot and store at -20 degree C.<br>Avoid repeated freezing and thawing cycles.                                        |

### IMAGES



#### IF (Immunofluorescence)

ICC/IF analysis of SAR1B in Hep3B cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human SAR1B antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



#### WB (Western Blot)

The extract of Mouse muscle (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human SAR1B antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-SAR1B antibody | SAR1B (GTP-binding protein SAR1b) is 198 amino acid protein. SAR1B is involved in transport from the endoplasmic reticulum to the Golgi apparatus. This protein is activated by the guanine nucleotide exchange factor PREB. It is involved in the selection of the protein cargo and the assembly of the COPII coat complex. Mutations in the SAR1B gene are associated with CMRD which is autosomal recessive disorder of severe fat malabsorption. |
| Product Categories/Family for anti-SAR1B antibody   | Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| References                                          | Jones, B., et al. (2003) Nat Genet 34 (1): 29-31; Annesi, G., et al. (2007) Clin Genet 71 (3): 288-9; Treepongkaruna, S., et al. (2009) J Pediatr Gastroenterol Nutr 48 (3): 370-3                                                                                                                                                                                                                                                                    |

NCBI AND UNIPROT INFORMATION

|                                  |                                            |
|----------------------------------|--------------------------------------------|
| NCBI GI #                        | 7705827                                    |
| NCBI GeneID                      | 51128                                      |
| NCBI Accession #                 | NP_057187                                  |
| NCBI GenBank Nucleotide #        | NM_016103.3                                |
| UniProt Accession #              | Q9Y6B6; Q567T4; D3DQA4                     |
| Molecular Weight                 | 22,410 Da                                  |
| NCBI Official Full Name          | GTP-binding protein SAR1b                  |
| NCBI Official Synonym Full Names | secretion associated Ras related GTPase 1B |
| NCBI Official Symbol             | SAR1B                                      |
| NCBI Official Synonym Symbols    | ANDD; CMRD; GTBPB; SARA2                   |
| NCBI Protein Information         | GTP-binding protein SAR1b                  |
| UniProt Protein Name             | GTP-binding protein SAR1b                  |
| UniProt Gene Name                | SAR1B                                      |
| UniProt Synonym Gene Names       | SARA2; SARB; GTBPB                         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/sar1b-antibody-clone-at1c7-immunofluorescence-immunocytochemistry-flow-cytometry-western-blot-elisa/48112>