

## Rabbit SAR1B Polyclonal Antibody | anti-SAR1B antibody

SAR1B Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                                       |
|-----------|--------|-------------------|------------------------------------------------------------------------------------|
| AAA324771 | Rabbit | Human, Mouse, Rat | ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

SAR1B; Polyclonal Antibody; SAR1B Antibody; ANDD; CMRD; GTBPB; GTP binding protein SAR1b; GTP binding protein Sara; GTP-binding protein B; GTP-binding protein SAR1B; SAR1 gene homolog B (S. cerevisiae); SAR1 homolog B; SAR1a gene homolog 2; SAR1B\_HUMAN; SARA2; SARB; anti-SAR1B antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                   |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                            |
| Reactivity                                      | Human, Mouse, Rat                                                                                                                 |
| Clonality                                       | Polyclonal                                                                                                                        |
| Isotype                                         | IgG                                                                                                                               |
| Specificity                                     | SAR1B antibody detects endogenous levels of total SAR1B                                                                           |
| Purity/Purification                             | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                                     |
| Form/Format                                     | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                     |
| Concentration                                   | 1mg/ml (varies by lot)                                                                                                            |
| Sequence Length                                 | 198                                                                                                                               |
| Applicable Applications for anti-SAR1B antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)                          |
| Immunogen                                       | A synthesized peptide                                                                                                             |
| Subcellular Location                            | Endoplasmic Reticulum; Golgi apparatus                                                                                            |
| Tissue Specificity                              | Expressed in many tissues including small intestine, liver, muscle and brain.                                                     |
| Predicted Cross Reactivity                      | <b>Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus</b>                                                        |
| Similarity                                      | Pig (100%), Zebrafish (91%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%) |
| Conjugation                                     | Unconjugated                                                                                                                      |
| Preparation and Storage                         | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                 |

IMAGES



IF (Immunofluorescence)

AAA324771 staining LOVO cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



IHC (Immunohistochemistry)

AAA324771 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of extracts from LOVO cells using SAR1B antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-SAR1B antibody

Function: Involved in transport from the endoplasmic reticulum to the Golgi apparatus. Activated by the guanine nucleotide exchange factor PREB. Involved in the selection of the protein cargo and the assembly of the COPII coat complex.  
Subunit Structure: Homodimer. Binds PREB. Part of the COPII coat complex. Binds to the cytoplasmic tails of target proteins in the endoplasmic reticulum (By similarity).  
Similarity: Belongs to the small GTPase superfamily. SAR1 family.

NCBI AND UNIPROT INFORMATION

|                                  |                                            |
|----------------------------------|--------------------------------------------|
| NCBI GI #                        | 75709204                                   |
| NCBI GeneID                      | 51128                                      |
| NCBI Accession #                 | NP_001028675.1                             |
| NCBI GenBank Nucleotide #        | NM_001033503.2                             |
| UniProt Accession #              | Q9Y6B6; Q567T4; D3DQA4                     |
| Molecular Weight                 | Observed: 22 kD<br>Predicted: 23 kDa       |
| 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.