10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Mouse Monoclonal Antibody to SEC31A
Purified Mouse Monoclonal Antibody
Catalog # AO2339a

Specification

Mouse Monoclonal Antibody to SEC31A - Product Information

Application	**WB, IHC, E**
Primary Accession	O94979
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse IgG1**
Calculated MW	**133kDa KDa**

Description
The protein encoded by this gene shares similarity with the yeast Sec31 protein, and is a component of the outer layer of the coat protein complex II (COPII). The encoded protein is involved in vesicle budding from the endoplasmic reticulum (ER) and contains multiple WD repeats near the N-terminus and a proline-rich region in the C-terminal half. It associates with the protein encoded by the SEC13 homolog, nuclear pore and COPII coat complex component (SEC13), and is required for ER-Golgi transport. Monoubiquitylation of this protein by CUL3-KLHL12 was found to regulate the size of COPII coats to accommodate unusually shaped cargo. Alternative splicing results in multiple transcript variants encoding different isoforms.;

Immunogen
Purified recombinant fragment of human SEC31A (AA: 429-571) expressed in E. Coli.

Formulation
Purified antibody in PBS with 0.05% sodium azide

Application Note
ELISA: 1/10000; WB: 1/500 - 1/2000; IHC: 1/200 - 1/1000;

Mouse Monoclonal Antibody to SEC31A - Additional Information

Gene ID 22872

Other Names
ABP125; ABP130; HSPC275; HSPC334; SEC31L1

Dilution
WB~~1:1000
IHC~~1:100~500
E~~N/A

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Mouse Monoclonal Antibody to SEC31A is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Monoclonal Antibody to SEC31A - Protein Information

Name SEC31A

Synonyms KIAA0905, SEC31L1

Function
Component of the coat protein complex II (COPII) which promotes the formation of transport vesicles from the endoplasmic reticulum (ER) (PubMed:10788476). The coat has two main functions, the physical deformation of the endoplasmic reticulum membrane into vesicles and the selection of cargo molecules (By similarity).

Cellular Location
Cytoplasm. Cytoplasmic vesicle, COPII-coated vesicle membrane; Peripheral membrane protein; Cytoplasmic side. Endoplasmic reticulum membrane; Peripheral membrane protein. Cytoplasm, cytosol. Note=Associates with membranes in a GTP- dependent manner (By similarity). Localizes to endoplasmic reticulum exit sites (ERES), also known as transitional endoplasmic reticulum (tER) (PubMed:17428803, PubMed:25201882, PubMed:28442536) {ECO:0000250|UniProtKB:Q9Z2Q1, ECO:0000269|PubMed:17428803, ECO:0000269|PubMed:25201882, ECO:0000269|PubMed:28442536}

Tissue Location
Abundantly and ubiquitously expressed.

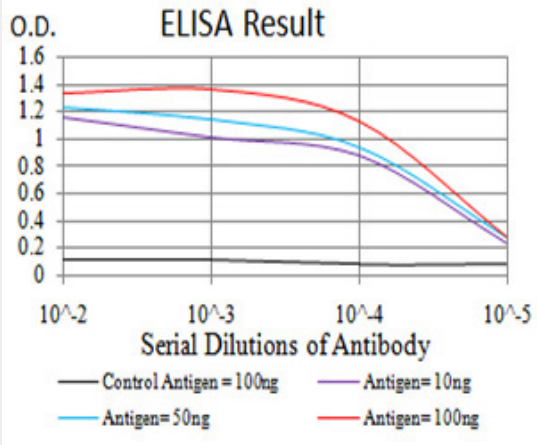
Mouse Monoclonal Antibody to SEC31A - Protocols

Provided below are standard protocols that you may find useful for product applications.

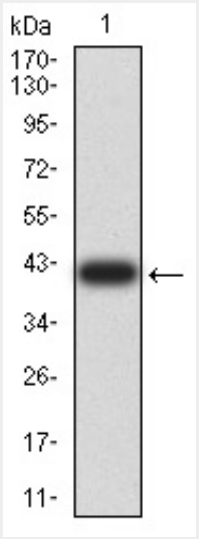
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Mouse Monoclonal Antibody to SEC31A - Images

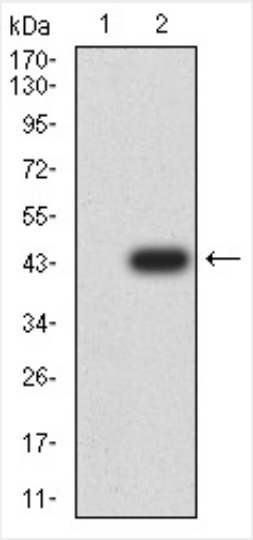
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

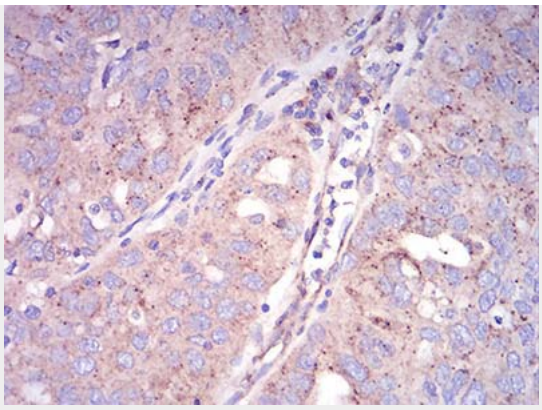


Western blot analysis using SEC31A mAb against human SEC31A (AA: 429-571) recombinant protein. (Expected MW is 41.8 kDa)



Western blot analysis using SEC31A mAb against HEK293 (1) and SEC31A (AA: 429-571)-hIgGFc transfected HEK293 (2) cell lysate.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Immunohistochemical analysis of paraffin-embedded ovarian cancer tissues using SEC31A mouse mAb with DAB staining.

Mouse Monoclonal Antibody to SEC31A - References

1.J Biol Chem. 2015 Feb 20;290(8):4981-93. ; 2.Blood. 2011 Apr 14;117(15):4056-64. ;