

For Research Use Only

# SEC5/EXOC2 Monoclonal antibody

Catalog Number: 66011-1-Ig

Featured Product

5 Publications



## Basic Information

### Catalog Number:

66011-1-Ig

### Size:

150ul, Concentration: 1700 µg/ml by Nanodrop and 1220 µg/ml by Bradford method using BSA as the standard;

### Source:

Mouse

### Isotype:

IgG2b

### Immunogen Catalog Number:

AG17866

### GenBank Accession Number:

BC016918

### GeneID (NCBI):

55770

### UNIPROT ID:

Q96KP1

### Full Name:

exocyst complex component 2

### Calculated MW:

924 aa, 104 kDa

### Observed MW:

100 kDa

### Purification Method:

Protein A purification

### CloneNo.:

1C11G2

### Recommended Dilutions:

WB 1:2500-1:10000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:200-1:800

IF 1:200-1:800

## Applications

### Tested Applications:

IF, IHC, IP, WB, ELISA

### Cited Applications:

IF, WB

### Species Specificity:

human, mouse, pig, rat

### Cited Species:

human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB** : mouse brain tissue, pig brain tissue, human brain tissue, pig cerebellum tissue, rat brain tissue, rat cerebellum tissue, HEK-293 cells

**IP** : mouse brain tissue,

**IHC** : human breast cancer tissue, human liver cancer tissue

**IF** : HeLa cells, MDA-MB-231 cells

## Background Information

EXOC2 (exocyst complex component 2), also known as SEC5 and SEC5L1, is a component of the exocyst complex, and is required to mediate RalB-dependent survival signals in transformed cells. The exocyst complex, composed of eight evolutionarily conserved subunits (SEC3, SEC5, SEC6, SEC8, SEC10, SEC15, EXO70, and EXO84), is involved in tethering post-Golgi secretory vesicles to specific plasma membrane domains. The gene of EXOC2 maps to chromosome 6p25.3, and encodes a 924-amino acid protein with an experimentally determined molecular mass of 95-100 kDa. EXOC2 mRNA is widely expressed with highest levels in brain and placenta.

## Notable Publications

Author	Pubmed ID	Journal	Application
Hong-Ling Wang	26359301	J Cell Sci	
Tanmoy Saha	34795441	Nat Nanotechnol	WB,IF
I M Gonzalez	24856041	Placenta	WB,IF

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

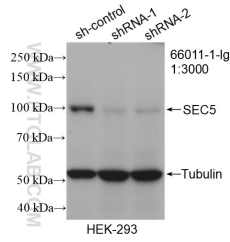
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

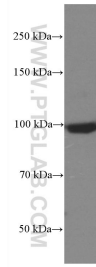
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

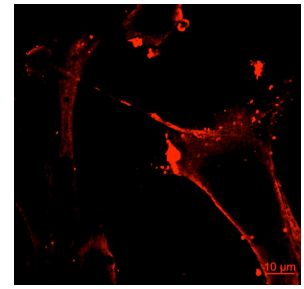
## Selected Validation Data



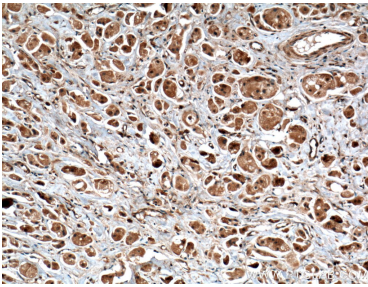
WB result of SEC5/EXOC2 antibody (66011-1-Ig; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SEC5/EXOC2 transfected HEK-293 cells.



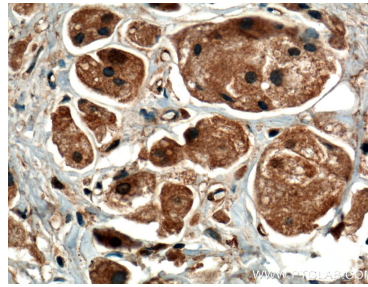
mouse brain tissue were subjected to SDS PAGE followed by western blot with 66011-1-Ig (SEC5/EXOC2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



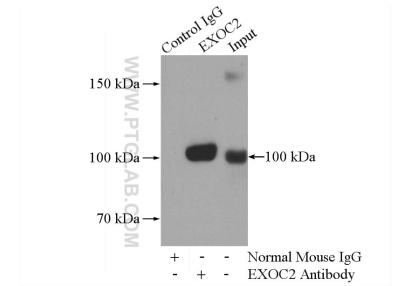
Immunostaining of exocyst protein Sec5 (66011-1-Ig, red) in MDA-MB-231 cells. The image was credited by Dr. Hae Lin Jang from Harvard Medical School.



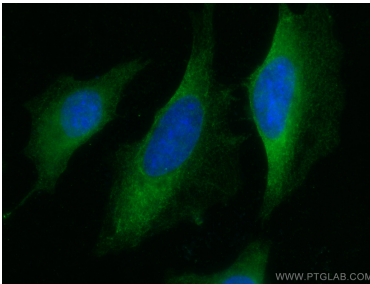
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66011-1-Ig (SEC5/EXOC2 antibody) at dilution of 1:400 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66011-1-Ig (SEC5/EXOC2 antibody) at dilution of 1:400 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-SEC5/EXOC2 (IP:66011-1-Ig; 5ug; Detection:66011-1-Ig 1:500) with mouse brain tissue lysate 3440ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using SEC5/EXOC2 antibody (66011-1-Ig, Clone: 1C11G2) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).