

# SURF4 Rabbit mAb

Catalog # AP76280

## Product Information

|                   |                        |
|-------------------|------------------------|
| Application       | WB, FC                 |
| Primary Accession | <a href="#">O15260</a> |
| Reactivity        | Rat, Human, Mouse      |
| Host              | Rabbit                 |
| Clonality         | Monoclonal Antibody    |
| Isotype           | IgG                    |
| Conjugate         | Unconjugated           |
| Purification      | Affinity Purified      |
| Calculated MW     | 30394                  |

## Additional Information

|             |                                                                                                 |
|-------------|-------------------------------------------------------------------------------------------------|
| Gene ID     | 6836                                                                                            |
| Other Names | SURF4                                                                                           |
| Dilution    | WB~~1:1000-1:5000 FC~~1:20                                                                      |
| Format      | Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA. |
| Storage     | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.        |

## Protein Information

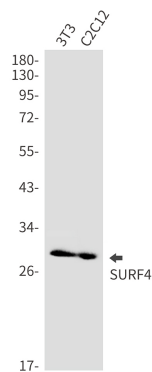
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name              | SURF4 {ECO:0000303 PubMed:18287528, ECO:0000312 HGNC:HGNC:11476}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Function          | Endoplasmic reticulum cargo receptor that mediates the export of lipoproteins by recruiting cargos into COPII vesicles to facilitate their secretion (PubMed: <a href="#">29643117</a> , PubMed: <a href="#">30251625</a> , PubMed: <a href="#">33186557</a> ). Acts as a cargo receptor for lipoproteins bearing both APOB and APOA1, thereby regulating lipoprotein delivery and the maintenance of lipid homeostasis (PubMed: <a href="#">29643117</a> , PubMed: <a href="#">33186557</a> ). Synergizes with the GTPase SAR1B to mediate transport of circulating lipoproteins (PubMed: <a href="#">33186557</a> ). Promotes the secretion of PCSK9 (PubMed: <a href="#">30251625</a> ). Also mediates the efficient secretion of erythropoietin (EPO) (PubMed: <a href="#">32989016</a> ). May also play a role in the maintenance of the architecture of the endoplasmic reticulum-Golgi intermediate compartment and of the Golgi (PubMed: <a href="#">18287528</a> ). |
| Cellular Location | Endoplasmic reticulum membrane; Multi-pass membrane protein. Endoplasmic reticulum-Golgi intermediate compartment membrane; Multi-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

pass membrane protein. Golgi apparatus membrane; Multi-pass membrane protein. Note=Active at endoplasmic reticulum exit sites (ERES) where it is incorporated together with its lipoprotein cargos into COPII-coated vesicles. From the Golgi it is recycled back to the endoplasmic reticulum.

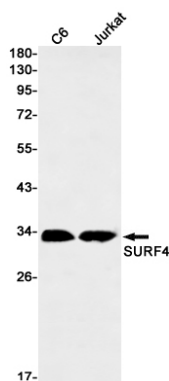
## Background

This gene is located in the surfait gene cluster, which is comprised of very tightly linked housekeeping genes that do not share sequence similarity. The encoded protein is a conserved integral membrane protein that interacts with endoplasmic reticulum-Golgi intermediate compartment proteins. Disruption of this gene results in reduced numbers of endoplasmic reticulum-Golgi intermediate compartment clusters and redistribution of coat protein I to the cytosol. Alternate splicing results in multiple transcript variants.

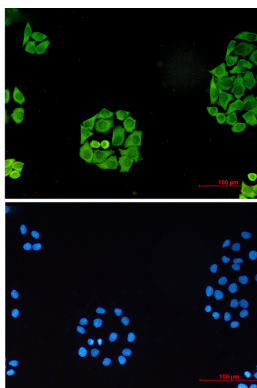
## Images



Western blot analysis of SURF4 in 3T3, C2C12 lysates using Surfeit Locus Protein 4 antibody.



Western blot analysis of SURF4 in C6, Jurkat lysates using SURF4 antibody.



Immunocytochemistry analysis of SURF4 (green) in HeLa using SURF4 antibody, and DAPI (blue)