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SURF4 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18750b

Specification

SURF4 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	O15260
Other Accession	Q64310, A7YY49, NP_149351.1
Reactivity	**Mouse**
Predicted	**Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**30394**
Antigen Region	**211-237**

SURF4 Antibody (C-term) - Additional Information

Gene ID 6836

Other Names
Surfeit locus protein 4, SURF4, SURF-4

Target/Specificity
This SURF4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 211-237 amino acids from the C-terminal region of human SURF4.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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

Precautions
SURF4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SURF4 Antibody (C-term) - 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:29643117, PubMed:30251625, PubMed:33186557). Acts as a cargo receptor for lipoproteins bearing both APOB and APOA1, thereby regulating lipoprotein delivery and the maintenance of lipid homeostasis (PubMed:29643117, PubMed:33186557). Synergizes with the GTPase SAR1B to mediate transport of circulating lipoproteins (PubMed:33186557). Promotes the secretion of PCSK9 (PubMed:30251625). Also mediates the efficient secretion of erythropoietin (EPO) (PubMed:32989016). May also play a role in the maintenance of the architecture of the endoplasmic reticulum-Golgi intermediate compartment and of the Golgi (PubMed:18287528).

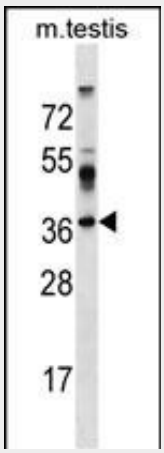
Cellular Location
Endoplasmic reticulum membrane; Multi-pass membrane protein. Endoplasmic reticulum-Golgi intermediate compartment membrane; Multi- pass membrane protein. Golgi apparatus membrane; Multi-pass membrane protein. Note=Active at endoplasmic reticulum exit sites (ERES) where it is incorporated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

SURF4 Antibody (C-term) - 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

SURF4 Antibody (C-term) - Images



SURF4 Antibody (C-term)(Cat. #AP18750b) western blot analysis in mouse testis tissue lysates (35ug/lane).This demonstrates the SURF4 antibody detected the SURF4 protein (arrow).

SURF4 Antibody (C-term) - Background

This gene is located in the surfeit 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 containing multiple putative transmembrane regions. In eukaryotic cells, protein transport between the endoplasmic reticulum and Golgi compartments is mediated in part by non-clathrin-coated vesicular coat proteins (COPs). The specific function of this protein has not been determined but its yeast homolog is directly required for packaging glycosylated pro-alpha-factor into COPII vesicles. This gene uses multiple polyadenylation sites, resulting in transcript length variation. The existence of alternatively spliced transcript variants has been suggested, but their validity has not been determined.

SURF4 Antibody (C-term) - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)
Mitrovic, S., et al. Mol. Biol. Cell 19(5):1976-1990(2008)
Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :