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Store at -20C
#8162

Sec23A Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 82	Source/Isotype: Rabbit	UniProt ID: #Q15436	Entrez-Gene Id: 10484
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Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Sec23A Antibody recognizes endogenous levels of total Sec23A protein. Based on sequence homology, this antibody may cross-react with Sec23B.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Phe717 of human Sec23A protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

There are two isoforms of Sec23 protein: Sec23A and Sec23B. Both isoforms have been shown in the Sec23/24 complex, which is a component of COPII coat (1). COPII is composed of at least five proteins: the Sec23/24 complex, the Sec13/31 complex, and Sar1. COPII coat is located at the ER/Golgi interface and involved in transport of newly synthesized proteins from the ER to the Golgi apparatus (2). COPII formation is initiated through binding of the activated G protein, Sar1, to the Sec23/24 complex to form a prebudding complex, which directly binds target molecules (2-4). The prebudding complex further recruits Sec13/31 to form mature COPII coat (5,6). In addition to being a COPII component, Sec23 has also been shown to interact with p125 and Sec16 at the transitional ER; these interactions are important for regulation of the COPII transportation function (7,8).

Background References

1. Paccaud, J.P. et al. (1996) *Mol Biol Cell* 7, 1535-46.
2. Aridor, M. et al. (1998) *J Cell Biol* 141, 61-70.
3. Miller, E.A. et al. (2003) *Cell* 114, 497-509.
4. Mossessova, E. et al. (2003) *Cell* 114, 483-95.
5. Barlowe, C. et al. (1994) *Cell* 77, 895-907.
6. Bi, X. et al. (2007) *Dev Cell* 13, 635-45.
7. Iinuma, T. et al. (2007) *J Biol Chem* 282, 17632-9.
8. Hughes, H. et al. (2009) *J Cell Sci* 122, 2924-34.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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