

#9678 Store at -20°C

Sec24A Antibody


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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP	H Mk	Endogenous	120	Rabbit	#O95486	10802

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	Sec24A Antibody detects endogenous levels of total Sec24A protein. This antibody does not cross-react with other members of Sec24 family.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Phe52 of human Sec24A protein. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	Coat Protein Complex II (COPII) is composed of five cytosolic proteins: Sec23/24 complex, Sec13/31 complex, and Sar1. COPII coat is located at the ER/Golgi interface and is involved in transport of newly synthesized proteins from the ER to the Golgi apparatus (1). COPII formation is initiated through the binding of the activated G protein, Sar1, to the Sec23/24 complex, thereby forming a prebudding complex that directly binds target molecules (1-3). The prebudding complex further recruits Sec13/31 to form mature COPII coat (4,5). The Sec24 subunit of COPII coat is thought to play a critical role in cargo selection (2,6). It binds directly to cargo proteins at the ER and brings them to COPII vesicles through interaction with Sec23. There are four Sec24 isoforms in human cells: Sec24A, Sec24B, Sec24C, and Sec24D (7). In mice, mutations in Sec24B have been linked to developmental defects (8,9).	
Background References	1. Aridor, M. et al. (1998) <i>J Cell Biol</i> 141, 61-70. 2. Miller, E.A. et al. (2003) <i>Cell</i> 114, 497-509. 3. Mossessova, E. et al. (2003) <i>Cell</i> 114, 483-95. 4. Barlowe, C. et al. (1994) <i>Cell</i> 77, 895-907. 5. Bi, X. et al. (2007) <i>Dev Cell</i> 13, 635-45. 6. Miller, E. et al. (2002) <i>EMBO J</i> 21, 6105-13. 7. Tang, B.L. et al. (1999) <i>Biochem Biophys Res Commun</i> 258, 679-84. 8. Merte, J. et al. (2010) <i>Nat Cell Biol</i> 12, 41-6; sup pp 1-8. 9. Wansleeben, C. et al. (2010) <i>Development</i> 137, 1067-73.	

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	WB: Western Blotting IP: Immunoprecipitation
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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