Cell Signaling Store at -20C Sec24B Antibody H. 877-616-CELL (2355) orders@cellsignal.com Orders: Support: 877-678-TECH (8324) info@cellsignal.com cellsignal.com Web: 3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, IP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 140	Source/Isotype: Rabbit	UniProt ID: #O95487	Entrez-Gene Id: 10427
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		Sec24B Antibody recognizes endogenous levels of total Sec24B protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro221 of human Sec24B 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 Reactiv	vity	Species reactivity is de	termined by testin	g in at least one approve	ed 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 Mk: Monkey				
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