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Sec24D (D9M7L) Rabbit mAb



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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 115	Source/Isotype: Rabbit IgG	UniProt ID: #O94855	Entrez-Gene Id: 9871
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Sec24D (D9M7L) Rabbit mAb recognizes endogenous levels of total Sec24D protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro80 of human Sec24D protein.				
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 Re	eferences	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 nonfat dry milk, 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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