Store at -20C

Sec24D (D9M7L) Rabbit mAb



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Applications: WB, 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	Ар	Application			Dilution		
	We	Western Blotting			1:1000		
	Imr	nunoprecipitation		1:100			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.					
Specificity / Sen	sitivity Sec	Sec24D (D9M7L) Rabbit mAb recognizes endogenous levels of total Sec24D protein.					
Source / Purifica		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro80 of human Sec24D protein.					
Background	com synt bind that mati sele intei	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 Ref	2. M 3. M 4. B 5. B	ridor, M. et al. (1998 iller, E.A. et al. (200 ossessova, E. et al. arlowe, C. et al. (19 , X. et al. (2007) De iller, E. et al. (2002)	93) Cell 114, 497- . (2003) Cell 114. 94) Cell 77, 895- ev Cell 13, 635-4!	509. , 483-95. 907. 5.			

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

8. Merte, J. et al. (2010) Nat Cell Biol 12, 41-6; sup pp 1-8. 9. Wansleeben, C. et al. (2010) Development 137, 1067-73.

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry Western Blot Buffer

milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

7. Tang, B.L. et al. (1999) Biochem Biophys Res Commun 258, 679-84.

Applications Key WB: Western Blotting IP: Immunoprecipitation

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key**

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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