ទី Sec61B (D5Q1W) Rabbit mAb





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Applications: W, IP, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 12	Source/Isotype: Rabbit IgG	UniProt ID: #P60468	Entrez-Gene Id: 10952		
Product Usage Application Information Western Blotting Immunoprecipitation Immunofluorescence (Immunocytochem)		istry)	Dilution 1:1000 1:100 1:200 - 1:800					
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less tha 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				ol and less than		
Specificity/Ser	nsitivity	Sec61B (D5Q1W) Rabbit mAb recognizes endogenous levels of total Sec61B protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly12 of human Sec61B protein.						
Background		Sec61 translocon is a channel complex located on the endoplasmic reticulum (ER) membrane to mediate membrane protein insertion into the organelle (1). There are three components in the complex, Sec61A, Sec61B, and Sec61G (2). Sec61A is the main component of the channel on the ER membrane and directly contacts nascent synthesized polypeptide TMD (transmembrane domain) for insertion (3). Sec61G functions in stablizing the channel (3). In addition to TMD insertion, Sec61 translocon has also been shown to be involved in ER calcium leakage (4,5). Both Bip and calmodulin can inhibit this leakage by their interaction with Sec61A (6,7). Sec61B has no obvious function related to target protein ER membrane insertion, but is involved in other vesicle trafficking processes such as EGFR and Her2 trafficking from the cytosol to nucleus (8,9), Gurken trafficking from Golgi to plasma membrane (10), and copper-transporting ATPase membrane distribution (11).						
Background R	eferences	 Shao, S. and Hegde, R.S. (2011) Annu Rev Cell Dev Biol 27, 25-56. Hartmann, E. et al. (1994) Nature 367, 654-7. Van den Berg, B. et al. (2004) Nature 427, 36-44. Flourakis, M. et al. (2006) FASEB J 20, 1215-7. Lang, S. et al. (2001) Channels (Austin) 5, 228-35. Erdmann, F. et al. (2011) EMBO J 30, 17-31. Schäuble, N. et al. (2012) EMBO J 31, 3282-96. Wang, Y.N. et al. (2010) J Biol Chem 285, 38720-9. Wang, Y.N. et al. (2012) J Biol Chem 287, 16869-79. Kelkar, A. and Dobberstein, B. (2009) BMC Cell Biol 10, 11. Abada, P.B. et al. (2012) Mol Pharmacol 82, 510-20. 						
Species Reacti	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot E	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 K	ey	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat Mk: Monkey						
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