#14648 Store at -200

Sec61B (D5Q1W) Rabbit mAb



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Applications: WB, 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 Information	Ар	Application			Dilution		
	We	Western Blotting			1:1000		
	Imr	munoprecipitation			1:1	00	
	Imr	Immunofluorescence (Immunocytochemistry)			1:2	00 - 1:800	
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 / Sensitiv	vity Sec	61B (D5Q1W) Rabb	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	mer Sec cont func to b intel inse cyto	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 Refere	nces 1. S	1. Shao, S. and Hegde, R.S. (2011) <i>Annu Rev Cell Dev Biol</i> 27, 25-56.					

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- 5. Lang, S. et al. (2001) Channels (Austin) 5, 228-35.
- 6. Erdmann, F. et al. (2011) EMBO J 30, 17-31.
- 7. Schäuble, N. et al. (2012) *EMBO J* 31, 3282-96.
- 8. Wang, Y.N. et al. (2010) J Biol Chem 285, 38720-9.
- 9. Wang, Y.N. et al. (2012) J Biol Chem 287, 16869-79.
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- 11. Abada, P.B. et al. (2012) Mol Pharmacol 82, 510-20.

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

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.

Applications Key Cross-Reactivity Key WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

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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