Sec61A1 (D4K2Z) Rabbit mAb			
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Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 40	Source/Isotype: Rabbit IgG	UniProt ID: #P61619	Entrez-Gene Id: 29927	
Product Usage Information	W	pplication /estern Blotting munoprecipitation			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 / Sensi	tivity See	Sec61A1 (D4K2Z) Rabbit mAb recognizes endogenous levels of total Sec61A1 protein.					
Source / Purificati		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys107 of human Sec61A1 protein.					
Background	me Sec cor fun to b inte inse cyt	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 Refe	2. F 3. \ 4. F 5. L 6. E 7. S 8. \ 9. \ 10. F	Shao, S. and Hegde, F Hartmann, E. et al. (19 Van den Berg, B. et al. Flourakis, M. et al. (200 Lang, S. et al. (2001) C Erdmann, F. et al. (201 Schäuble, N. et al. (201 Wang, Y.N. et al. (2012 Kelkar, A. and Dobbers Abada, P.B. et al. (2012	94) Nature 367 (2004) Nature 06) FASEB J 20 Channels (Austii 1) EMBO J 30, 12) EMBO J 31 0) J Biol Chem 2 2) J Biol Chem 2 stein, B. (2009)	427, 36-44.), 1215-7. n) 5, 228-35. 17-31. , 3282-96. 285, 38720-9. 287, 16869-79. <i>BMC Cell Biol</i> 10, 11.	25-56.		
Species Reactivity	y Spe	cies reactivity is detern	mined by testing	g in at least one approve	ed application (e.g., we	estern blot).	
Western Blot Buff	-			membrane with diluted th gentle shaking, overr		% w/v nonfat dry	
Applications Key	WB	B: Western Blotting IP:	Immunoprecipi	tation			
Cross-Reactivity F	X: X		B: bovine Dg: d	Mk: monkey Vir: virus I og Pg: pig Sc: S. cerevi es expected		Ũ	
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Sec61A1 (D4K2Z) Rabbit mAb (#14867) Datasheet Without Images Cell Signaling Technology

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