re at -20C	Sec61A1	(D7Q6V) F	Rabbit mAk				
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or Research Use Only. Not for Use in Diagnostic Procedures.							
Ар	plications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 40	Source/Isotype: Rabbit IgG	UniProt ID: #P61619	Entrez-Gene Id: 29927
Pro	oduct Usage ormation	Application			Dilution		
inito		Western Blotting			1:1000		

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 / Sensitivity	Sec61A1 (D7Q6V) Rabbit mAb recognizes endogenous levels of total Sec61A1 protein.

1:100

Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to
	residues surrounding Arg273 of human Sec61A1 protein.

Immunoprecipitation

- 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 References
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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	WB: Western Blotting IP: Immunoprecipitation
Cross-Reactivity Key	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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Sec61A1 (D7Q6V) Rabbit mAb (#14868) Datasheet Without Images Cell Signaling Technology

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