e at -20C	Sec23A Antibody		Cell Signaling	
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
32		Support:	877-678-TECH (8324)	
#8162		Web:	info@cellsignal.com cellsignal.com	
#		3 Trask Lane   Danvers   Ma	ssachusetts   01923   USA	

## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP	<b>Reactivity:</b> H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 82	Source: Rabbit	<b>UniProt ID:</b> #Q15436	Entrez-Gene Id: 10484		
Product Usage Information	W	pplication estern Blotting munoprecipitation			<b>Dilution</b> 1:1000 1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity / Sensit		Sec23A Antibody recognizes endogenous levels of total Sec23A protein. Based on sequence homology, this antibody may cross-react with Sec23B.						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Phe717 of human Sec23A protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background Background References		There are two isoforms of Sec23 protein: Sec23A and Sec23B. Both isoforms have been shown in the Sec23/24 complex, which is a component of COPII coat (1). COPII is composed of at least five proteins: the Sec23/24 complex, the Sec13/31 complex, and Sar1. COPII coat is located at the ER/Golgi interface and involved in transport of newly synthesized proteins from the ER to the Golgi apparatus (2). COPII formation is initiated through binding of the activated G protein, Sar1, to the Sec23/24 complex form a prebudding complex, which directly binds target molecules (2-4). The prebudding complex further recruits Sec13/31 to form mature COPII coat (5,6). In addition to being a COPII component, Sec23 has also been shown to interact with p125 and Sec16 at the transitional ER; these interactions are important for regulation of the COPII transportation function (7,8).						
		Paccaud, J.P. et al. (19 Aridor, M. et al. (1998) Miller, E.A. et al. (2003 Mossessova, E. et al. ( Barlowe, C. et al. (199 Bi, X. et al. (2007) <i>Dev</i> inuma, T. et al. (2007) Hughes, H. et al. (2009)	J Ćell Biol 141, 61 5) Cell 114, 497-50 (2003) Cell 114, 48 4) Cell 77, 895-90 7 Cell 13, 635-45. J Biol Chem 282,	70. 9. 33-95. 7. 17632-9.				
Species Reactivity	Spe	cies reactivity is deter	mined by testing ir	at least one approv	ved application (e.g., we	stern blot).		
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key	WB	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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