e at -20C	Tom20 (D8T4N) Rabbit mAb				
Stor		Orders:	877-616-CELL (2355) orders@cellsignal.com		
-06		Support:	877-678-TECH (8324)		
42406		Web:	info@cellsignal.com cellsignal.com		
#		3 Trask Lane Danvers Mas	Frask Lane Danvers Massachusetts 01923 USA		

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

	eactivity: Sensitivity I M R Mk Endogenou		Source/Isotype: Rabbit IgG	UniProt ID: #Q15388	Entrez-Gene Id: 9804			
Product Usage	Application			Dilu	ution			
Information	Western Blotting			1:10	000			
	Immunoprecipitatio	on		1:50	0			
	Immunohistochem	iistry (Paraffin)		1:10	00 - 1:400			
	Immunofluorescer	Immunofluorescence (Immunocytochemistry)			1:100 - 1:400			
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.						
	For a carrier free (E	For a carrier free (BSA and azide free) version of this product see product #66401.						
Specificity / Sensitivi		Tom20 (D8T4N) Rabbit mAb recognizes endogenous levels of total Tom20 protein. Tom20 (D8T4N) Rabbit mAb does not have detectable signal by indirect fluorescent detection in frozen mouse tissue.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human Tom20 protein.						
Background Background Referenc	In humans, 13 prote proteins are encode precursors in the cy protein complexes import of proteins th inner membrane (T complex consists o TOM20 is localized presequence to fac process, recognitio TOM40 protein con 1. Chacinska, A. et	 Mitochondria play a central role in cellular energy metabolism and are essential organelles in eukaryotes. In humans, 13 proteins are encoded by the mitochondrial genome while the vast majority of mitochondrial proteins are encoded by the nuclear genome. As a result, most mitochondrial proteins are synthesized as precursors in the cytoplasm and imported across mitochondrial membranes by one or more translocase protein complexes (1). The translocase of the outer mitochondrial membrane (TOM complex) facilitates the import of proteins through the outer mitochondrial membrane, while the complementary translocase of the inner membrane (TIM complex) is responsible for protein transport to the mitochondrial matrix. The TOM complex consists of the receptors TOM20, TOM22, TOM70, and the channel-forming protein TOM40 (1). TOM20 is localized in the outer mitochondrial membrane and initially recognizes precursors with a presequence to facilitate protein import across the outer mitochondrial membrane (2). In a sequential process, recognition of the presequence by TOM20 is followed by tethering of the presequence to the TOM40 protein complex for efficient protein import (3). 1. Chacinska, A. et al. (2009) <i>Cell</i> 138, 628-44. 2. Saitoh, T. et al. (2007) <i>EMBO J</i> 26, 4777-87. 						
	5. ramamoto, ri. et							
Species Reactivity	Species reactivity is	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 IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivity Key	X: Xenopus Z: zebra	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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