ក្ខុ ដ្កុ Tom20 (D8T4N) Rabbit mAb





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Applications: W, IP, IHC-P, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 16	Source/Isotype: Rabbit IgG	UniProt ID: #Q15388	Entrez-Gene Id: 9804		
Product Usage Information		Application Western Blotting Immunoprecipitation Immunohistochemistry (Paraffin) Immunofluorescence (Immunocytochemistry)			Dilution 1:1000 1:50 1:100 - 1:400 1:100 - 1:400			
			l sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than le. Store at –20°C. Do not aliquot the antibody.					
		For a carrier free (BSA and azide free) version of this product see product #66401.						
Specificity/Sensitivity		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		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).						
Background Re	ferences	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. 3. Yamamoto, H. et al. (2011) <i>Proc Natl Acad Sci U S A</i> 108, 91-6.						
Species Reactiv	ity	Species reactivity is de	termined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	n Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfa dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				ז 5% w/v nonfat			
Applications Ke	ey.	W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivity	у Кеу	H: Human M: Mouse R: Rat Mk: Monkey						
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