

Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 16	Source/Isotype: Rabbit	UniProt ID: #Q15388	Entrez-Gene Id: 9804
Product Usage Information Storage	•	Application Western Blotting Immunoprecipitation Supplied in 10 mM soc	lium HEPES (pH 7 5	5). 150 mM NaCl. 100 u.g.	Dilution 1:1000 1:50 /ml BSA and 50% gb	vcerol. Store at –
		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/Sensitivity		Tom20 Antibody recognizes endogenous levels of total Tom20 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human Tom20 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
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 References		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 Reacti	vity	Species reactivity is de	termined by testin	g in at least one approve	ed 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		W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey				
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