

:72610

Tom20 (D8T4N) Rabbit mAb (HRP Conjugate)



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| Applications: W | 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 | | | Dilution 1:1000 | |
| Storage | | Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at –20°C. Do not aliquot the antibody. | | | | |
| Specificity/Sensitivity | | Tom20 (D8T4N) Rabbit mAb (HRP Conjugate) recognizes endogenous levels of total Tom20 protein. | | | | |
| Source / Purification | | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human Tom20 protein. | | | | |
| Description | | This Cell Signaling Technology antibody is conjugated to the carbohydrate groups of horseradish peroxidase (HRP) via its amine groups. The HRP conjugated antibody is expected to exhibit the same species cross-reactivity as the unconjugated Tom20 (D8T4N) Rabbit mAb #42406. | | | | |
| 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 Reactivi | ty | Species reactivity is d | etermined 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 | | | | |
| Cross-Reactivity Key | | H: Human M: Mouse R: Rat Mk: Monkey | | | | |
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