

#4775 Store at -20°C

Tid-1 (RS13) Mouse mAb



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| Applications: | Reactivity: | Sensitivity: | MW (kDa): | Source/Isotype: | UniProt ID: | Entrez-Gene Id: |
|---------------|-------------|--------------|-----------------------|-----------------|-------------|-----------------|
| WB, IP | H M R | Endogenous | 37 Tid-1s. 40 Tid-1L. | Mouse IgG1 | #Q96EY1 | 9093 |

Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity / Sensitivity

Tid-1 (RS13) Mouse Monoclonal Antibody detects endogenous levels of the short and long variants of Tid-1.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant human Tid-1 protein. Antibody is supplied in 10mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 mg/ml BSA and 50% glycerol.

Background

Human Tid-1 is a human orthologue of the Drosophila tumor suppressor lethal (2) tumorous imaginal discs, l (2) tid and is a member of the DnaJ family of proteins that serve as co-chaperones to Hsp70 proteins (1). These proteins are characterized by a J domain, a highly conserved tetrahelical domain that binds to Hsp70 chaperones and activates their ATPase activity. Hsp70 and their associated chaperones mediate a variety of activities including the folding of newly synthesized polypeptides, the translocation of proteins across membranes and assembly of multimeric protein complexes. Two alternatively spliced variants exist for human Tid-1, designated hTID-1s and hTID-1L, both which contain the J domain, localize to the mitochondrial matrix, and co-immunoprecipitate with Hsp70. Expression of Tid-1L increases apoptosis induced by the DNA damaging agent mitomycin c (MMC) and by TNF-alpha, and that activity is dependent on its J domain. In contrast, expression of Tid-1S reduces apoptosis by these agents. Tid-1 orthologues are also found in mouse (mTid-1) and rat (rTid-1) (2,3). The mouse orthologue was originally identified through its interaction with p120 GTPase-activating protein (GAP), raising the possibility that Tid-1 helps regulates the confirmation, activity, or subcellular localization of GAP (3).

Background References

1. Syken, J. et al. (1999) *Proc Natl Acad Sci U S A* 96, 8499-504.
2. Fujita, M. et al. (2004) *Mol Cell Biochem* 258, 183-9.
3. Trentin, G.A. et al. (2001) *J Biol Chem* 276, 13087-95.

Species Reactivity

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

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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