



Orders: 877-616-CELL (2355)
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Web: info@cellsignal.com
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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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#4775

Tid-1 (RS13) Mouse mAb

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

Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 37 Tid-1s, 40 Tid-1L	Source/Isotype: Mouse IgG1	UniProt ID: #Q96EY1	Entrez-Gene Id: 9093
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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 regulate the confirmation, activity, or subcellular localization of GAP (3).	
Background References	<ol style="list-style-type: none"> 1. Syken, J. et al. (1999) <i>Proc Natl Acad Sci U S A</i> 96, 8499-504. 2. Fujita, M. et al. (2004) <i>Mol Cell Biochem</i> 258, 183-9. 3. Trentin, G.A. et al. (2001) <i>J Biol Chem</i> 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	W: Western Blotting IP: Immunoprecipitation	
Cross-Reactivity Key	H: Human M: Mouse R: Rat	
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