

#2816 Store at -20C

Grp75 Antibody

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

Applications: WB, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 75	Source: Rabbit	UniProt ID: #P38646	Entrez-Gene Id: 3313
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Product Usage Information	Application Western Blotting Immunofluorescence (Immunocytochemistry)	Dilution 1:1000 1:100 - 1:400
Storage	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	Grp75 Antibody detects endogenous levels of total Grp75 protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to a sequence of human Grp75. Antibodies are purified by peptide affinity chromatography.	
Background	Grp75, also known as mortalin, is a member of Hsp70 family of chaperone proteins that is not heat-inducible (1,2). This protein is essential for transporting many mitochondrial proteins from the cytoplasm to mitochondria (3). Grp75 inactivates the tumor suppressor p53 (4). Studies found that Grp75 is overexpressed in many tumor tissues and immortalized human cell lines, suggesting its role in the tumor formation (5). Grp75 is also implicated in cell aging, as its overexpression appears to prolong the life span of human fibroblasts (6).	
Background References	1. Kaul, S.C. et al. (1993) <i>Biochem Biophys Res Commun</i> 193, 348-55. 2. Wadhwa, R. et al. (1993) <i>J Biol Chem</i> 268, 6615-21. 3. Schneider, H.C. et al. (1994) <i>Nature</i> 371, 768-74. 4. Wadhwa, R. et al. (1998) <i>J Biol Chem</i> 273, 29586-91. 5. Wadhwa, R. et al. (2006) <i>Int J Cancer</i> 118, 2973-80. 6. Kaul, S.C. et al. (2003) <i>Exp Cell Res</i> 286, 96-101.	

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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)
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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