e at -20C	Grp75 (D13H4) XP <sup>®</sup> Rabbit mAb		Cell Signaling	
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
)3		Support:	877-678-TECH (8324)	
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#		3 Trask Lane   Danvers   Mas	ssachusetts   01923   USA	

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

Applications: WB, IP, IHC-P, IF-IC	Reactivity: H M Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 75	Source/Isotype: Rabbit IgG	UniProt ID: #P38646	Entrez-Gene Id: 3313		
Product Usage	Ар	plication				Dilution		
Information	We	stern Blotting				1:1000		
	Imr	nunoprecipitation				1:50		
	Imr	nunohistochemistry (	(Paraffin)			1:50		
	Imr	nunofluorescence (Ir	nmunocytochen	nistry)		1:100		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
	For	For a carrier free (BSA and azide free) version of this product see product #36890.						
Specificity / Sensitivity		Grp75 (D13H4) $XP^{ entric{B}{R}}$ Rabbit mAb detects endogenous levels of total Grp75 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the sequence of human Grp75.						
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 Refe	2. W 3. So 4. W 5. W	<ol> <li>Kaul, S.C. et al. (1993) <i>Biochem Biophys Res Commun</i> 193, 348-55.</li> <li>Wadhwa, R. et al. (1993) <i>J Biol Chem</i> 268, 6615-21.</li> <li>Schneider, H.C. et al. (1994) <i>Nature</i> 371, 768-74.</li> <li>Wadhwa, R. et al. (1998) <i>J Biol Chem</i> 273, 29586-91.</li> <li>Wadhwa, R. et al. (2006) <i>Int J Cancer</i> 118, 2973-80.</li> <li>Kaul, S.C. et al. (2003) <i>Exp Cell Res</i> 286, 96-101.</li> </ol>						
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	Cations Key         WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)           IF-IC: Immunofluorescence (Immunocytochemistry)				1)			
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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