



Orders: 877-616-CELL (2355)
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Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

#4869 Store at -20C

HSP60 (D85) Antibody

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

Applications: W, IF-IC, FC-FP	Reactivity: H M R Mk Dm	Sensitivity: Endogenous	MW (kDa): 60	Source/Isotype: Rabbit
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Product Usage Information	Application Western Blotting Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)	Dilution 1:1000 1:50 1:50
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	HSP60 (D85) Antibody detects endogenous levels of total HSP60 protein. This antibody does not cross-react with other HSPs.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide surrounding Asp85 of human HSP60. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	In both prokaryotic and eukaryotic cells the misfolding and aggregation of proteins during biogenesis and under conditions of cellular stress are prevented by molecular chaperones (1-3). HSP60 has primarily been known as a mitochondrial protein that is important for folding key proteins after import into the mitochondria (4). Research studies have shown that a significant amount of HSP60 is also present in the cytosol of many cells, and that it is induced by stress, inflammatory and immune responses, and autoantibodies correlated with Alzheimer's, coronary artery diseases, MS, and diabetes (5-8).	
Background References	<ol style="list-style-type: none"> Hartl, F.U. (1996) <i>Nature</i> 381, 571-579. Bukau, B. and Horwich, A.L. (1998) <i>Cell</i> 92, 351-366. Hartl, F.U. and Hayer-Hartl, M. (2002) <i>Science</i> 295, 1852-1858. Jindal, S. et al. (1989) <i>Mol. Cell Biol.</i> 9, 2279-2283. Itoh, H. et al. (2002) <i>Eur. J. Biochem.</i> 269, 5931-5938. Gupta, S. and Knowlton, A.A. <i>J. Cell Mol. Med.</i> 9, 51-58. Deocaris, C.C. et al. (2006) <i>Cell Stress Chaperones</i> 11, 116-128. Lai, H.C. et al. (2007) <i>Am. J. Physiol. Endocrinol. Metab.</i> 292, E292-E297. 	
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	W: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)	
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey Dm: D. melanogaster	
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