

HSP60 (D307) Antibody



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Applications: W, IF-IC, FC-FP	Reactivity: H M R Mk Dm	Sensitivity: Endogenous	MW (kDa): 60	Source/Isotype: Rabbit	UniProt ID: #P10809	Entrez-Gene Id: 3329
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 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		$\label{eq:hsp60} \textit{(D307)} \ \textit{Antibody detects endogenous levels of total HSP60 protein. This antibody does not cross-react with other HSPs.}$				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide surrounding Asp307 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		 Hartl, F.U. (1996) Nature 381, 571-579. Bukau, B. and Horwich, A.L. (1998) Cell 92, 351-366. Hartl, F.U. and Hayer-Hartl, M. (2002) Science 295, 1852-1858. Jindal, S. et al. (1989) Mol. Cell Biol. 9, 2279-2283. Itoh, H. et al. (2002) Eur. J. Biochem. 269, 5931-5938. Gupta, S. and Knowlton, A.A. J. Cell Mol. Med. 9, 51-58. Deocaris, C.C. et al. (2006) Cell Stress Chaperones 11, 116-128. Lai, H.C. et al. (2007) Am. J. Physiol. Endocrinol. Metab. 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, 13 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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