

**#4870** Store at -20°C

## HSP60 (D307) Antibody


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

<b>Applications:</b> WB, IF-IC, FC-FP	<b>Reactivity:</b> H M R Mk Dm	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 60	<b>Source:</b> Rabbit	<b>UniProt ID:</b> #P10809	<b>Entrez-Gene Id:</b> 3329
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<b>Product Usage Information</b>	<b>Application</b> Western Blotting Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)	<b>Dilution</b> 1:1000 1:50 1:50
<b>Storage</b>	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.	
<b>Specificity / Sensitivity</b>	HSP60 (D307) Antibody detects endogenous levels of total HSP60 protein. This antibody does not cross-react with other HSPs.	
<b>Source / Purification</b>	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.	
<b>Background</b>	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).	
<b>Background References</b>	1. Hartl, F.U. (1996) <i>Nature</i> 381, 571-579. 2. Bukau, B. and Horwich, A.L. (1998) <i>Cell</i> 92, 351-366. 3. Hartl, F.U. and Hayer-Hartl, M. (2002) <i>Science</i> 295, 1852-1858. 4. Jindal, S. et al. (1989) <i>Mol. Cell Biol.</i> 9, 2279-2283. 5. Itoh, H. et al. (2002) <i>Eur. J. Biochem.</i> 269, 5931-5938. 6. Gupta, S. and Knowlton, A.A. <i>J. Cell Mol. Med.</i> 9, 51-58. 7. Deocaris, C.C. et al. (2006) <i>Cell Stress Chaperones</i> 11, 116-128. 8. Lai, H.C. et al. (2007) <i>Am. J. Physiol. Endocrinol. Metab.</i> 292, E292-E297.	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry) <b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized)
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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