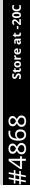
HSP40 Antibody





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Applications: W, IP, IF-IC, FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 40	Source/Isotype: Rabbit		
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence (Immu Flow Cytometry (Fixed/Perm	, ,		Dilution 1:1000 1:50 1:400 1:200	
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/Sensit	tivity	HSP40 Antibody detects endogenous levels of total HSP40 protein. This antibody does not cross-re with other HSPs.		dy does not cross-react		
Source / Purificat	tion	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to Glu300 of human HSP40/Hdj1. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		HSP40 and HSP40-like proteins represent a large family of chaperone proteins that are homologous to <i>E. coli</i> DnaJ protein (1). These proteins are classified into three subtypes based on their structures. The common feature of the family is a conserved J domain, which is usually located at the amino terminus of proteins and responsible for their association with HSP70 (1,2). Human HSP40, also known as Hdj1, belongs to subtype II that contain a unique Gly/Phe-rich region (2). HSP40 family proteins bind unfolded proteins, prevent their aggregation, and then deliver them to HSP70 (2,3). Another major function of HSP40 is to stimulate ATPase activity of HSP70, which causes conformational change of the unfolded proteins (4,5). The HSP40-HSP70-unfolded protein complex further binds to co-chaperones Hip, Hop and HSP90 or components of the protein degradation machinery such as CHIP and BAG-1, which either leads to protein folding or degradation, respectively (6).				
Background Refe	rences	1. Cheetham, M.E. and Caplan, A.J. (1998) <i>Cell Stress Chaperones</i> 3, 28-36. 2. Fan, C.Y. et al. (2003) <i>Cell Stress Chaperones</i> 8, 309-316. 3. Langer, T. et al. (1992) <i>Nature</i> 356, 683-689. 4. Liberek, K. et al. (1991) <i>Proc. Natl. Acad. Sci. USA</i> 88, 2874-2878. 5. Cyr, D.M. et al. (1992) <i>J. Biol. Chem.</i> 267, 20927-20931. 6. Höhfeld, J. et al. (2001) <i>EMBO Rep.</i> 2, 885-890.				
Species Reactivit	у	Species reactivity is determi	ned by testing in at	least one approved application	(e.g., western blot).	
Western Blot Buf	fer	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 IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC- FP: Flow Cytometry (Fixed/Permeabilized)				
Cross-Reactivity	Key	H: Human M: Mouse R: Rat Mk: Monkey				
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