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HSP40 Antibody



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Applications: WB, IP, IF-IC, FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 40	Source: Rabbit	UniProt ID: #P25685	Entrez-Gene Id: 3337
Product Usage Information	Ар	plication				Dilution
	We	estern Blotting				1:1000
	Im	munoprecipitation				1:50
	Im	Immunofluorescence (Immunocytochemistry)				1:400
	Flo	w Cytometry (Fixed	d/Permeabilized)			1:200
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 / Sensi	HSP40 Antibody detects endogenous levels of total HSP40 protein. This antibody does not cross-react with other HSPs.				es not cross-react	
Source / Purificati		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	coli com prot belo prot HSI prot HSI	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	2. F 3. L 4. L	 Cheetham, M.E. and Caplan, A.J. (1998) Cell Stress Chaperones 3, 28-36. Fan, C.Y. et al. (2003) Cell Stress Chaperones 8, 309-316. Langer, T. et al. (1992) Nature 356, 683-689. Liberek, K. et al. (1991) Proc. Natl. Acad. Sci. USA 88, 2874-2878. Cyr, D.M. et al. (1992) J. Biol. Chem. 267, 20927-20931. Höhfeld, J. et al. (2001) EMBO Rep. 2, 885-890. 				

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 WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

FC-FP: Flow Cytometry (Fixed/Permeabilized)

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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Limited Uses

HSP40 Antibody (#4868) Datasheet Without Images Cell Signaling Technology

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