

Product Data Sheet

Anti-HSP70 Antibody

Catalog #	Source	Reactivity	Applications
CPA9192	Mouse	H, M, R	WB, IH, IF/IC
Description	Mouse monoclonal to HSP70		
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence of human HSP70. The exact sequence is proprietary.		
Purification			
Specificity	Recognizes endogenous levels of HSP70 protein.		
Clonality	Monoclonal		
Form	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		
Dilution	WB (1/1000 - 1/2000), IH (1/100 - 1/200), IF/IC (1/100 - 1/200)		
Gene Symbol	HSPA1L; HSPA1A		
Alternative Names	HSPA1L; Heat shock 70 kDa protein 1-like; Heat shock 70 kDa protein 1L; Heat shock 70 kDa protein 1-Hom; HSP70-Hom; HSPA1A; HSPA1; HSPA1B; Heat shock 70 kDa protein 1A/1B; Heat shock 70 kDa protein 1/2; HSP70-1/HSP70-2; HSP70.1/HSP70.2		
Entrez Gene	3305, 3303, 3304 (Human); 15482, 193740 (Mouse); 24963, 24472 (Rat)		
SwissProt	P34931, P08107 (Human); P16627, Q61696 (Mouse); P55063, Q07439 (Rat)		
Storage/Stability	Shipped at 4°C. Upon delivery aliquot and store at -20°C for one year. Avoid freeze/thaw cycles.		

Application key: E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, ChIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference

Species reactivity key: H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish

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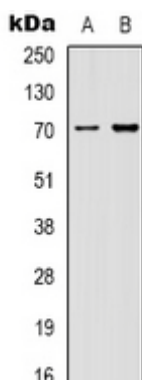
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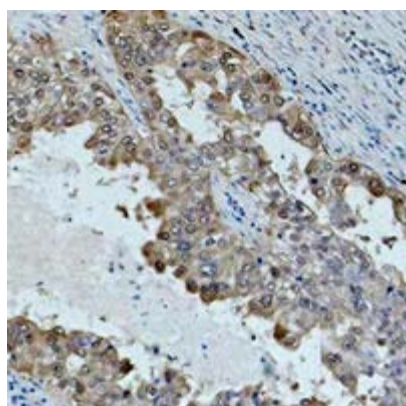
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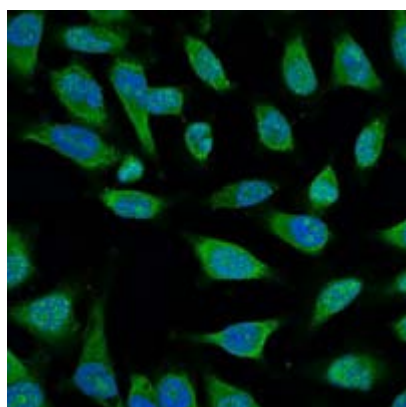
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Western blot analysis of HSP70 expression in Hela (A), mouse brain (B) whole cell lysates.



Immunohistochemical analysis of HSP70 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of HSP70 staining in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a FITC-conjugated secondary antibody (green) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

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