



Catalog: OM638931

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Hsc70

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☐ 100 µl

Product profile

Product name	Hsc70
Antibody Type	Primary Antibodies
Product description	The HSP 70 family is composed of four highly conserved proteins: HSP 70, HSC 70, GRP 75 and GRP 78. These proteins serve a variety of roles: they act as molecular chaperones facilitating the assembly of multi-protein complexes, participate in the translocation of polypeptides across cell membranes and to the nucleus, and aid in the proper folding of nascent polypeptide chains. All members of the family, except HSP 70, are constitutively expressed in primate cells. HSP 70 expression is strongly induced in response to heat stress. HSP 70 and HSC 70 play key roles in the cytosolic endoplasmic reticulum and mitochondrial import machinery and are found in both the cytosol and nucleus of mammalian cells. Both HSP 70 and HSC 70 are involved in the chaperoning of nascent polypeptide chains and in protecting cells against the accumulation of improperly folded proteins. GRP 78 is localized in the endoplasmic reticulum, where it receives imported secretory proteins and is involved in the folding and translocation of nascent peptide chains. GRP 75 expression is restricted to the mitochondrial matrix and aids in the translocation and folding of nascent polypeptide chains of both nuclear and mitochondrial origin. GRP 75 and GRP 78 are unresponsive to heat stress and are induced by glucose deprivation. It has been postulated that members of the HSP 70 family act as force-generating motors, relying on the hydrolysis of ATP for their activity.
Immunogen	Recombinant protein.

Key Feature

Clonality	Polyclonal
Isotype	IgG
Host Species	Rabbit
Tested Applications	WB ,ICC ,IHC ,FC
Species Reactivity	Human Mouse Rat
Concentration	1 mg/mL

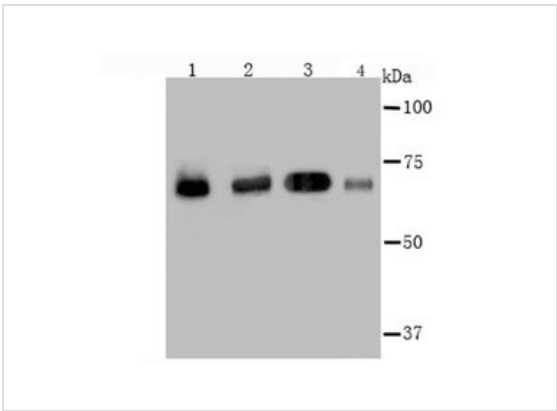
Target Information

Alternative Names	2410008N15Rik antibody Constitutive heat shock protein 70 antibody Epididymis luminal protein 33 antibody Epididymis secretory sperm binding protein Li 72p antibody Heat shock 70 kDa protein 8 antibody Heat at shock 70kD protein 10 antibody Heat shock 70kD protein 8 antibody Heat shock 70kDa protein 8 antibody Heat shock cognate 71 kDa protein antibody Heat shock cognate protein 54 antibody Heat shock cognate protein 71 kDa antibody Heat shock protein 8 antibody Heat shock protein A8 antibody Heat shock protein family A (Hsp70) member 8 antibody Heat-shock70-KD protein 10, formerly antibody HEL 33 antibody HEL S 72p antibody HSC54 antibody HSC71 antibody Hsc73 antibody HSP71 antibody HSP73 antibody HSP7C_HUMAN antibody HSPA10 antibody HSPA8 antibody LAP1 antibody Lipopolysaccharide associated protein 1 antibody LPS associated protein 1 antibody LPS associated protein antibody MGC102007 antibody MGC106514 antibody MGC114311 antibody MGC118485 antibody MGC131511 antibody MGC29929 antibody N-myristoyltransferase inhibitor protein 71 antibody NIP71 antibody
Molecular Weight(MW)	70 kDa
Cellular Localization	Nucleus. Cytoplasm. Secreted.

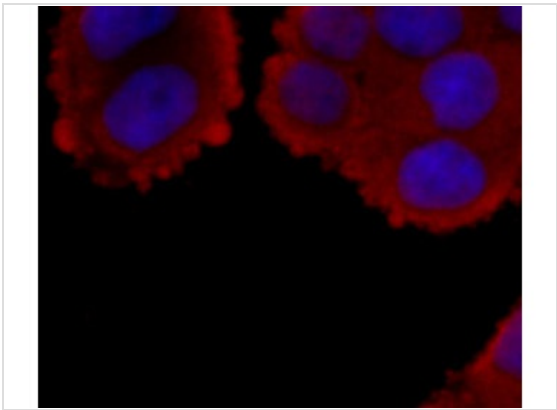
Database Links

SwissProt ID	P11142
	P63017
	P63018

Application

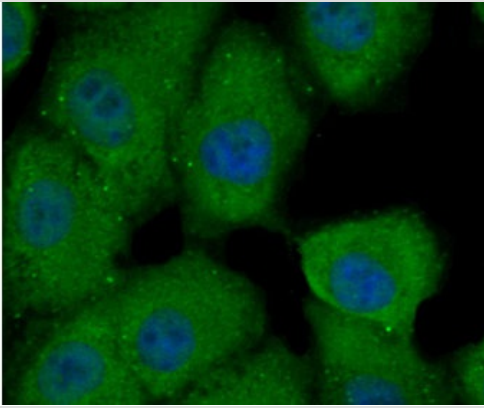


Application
 Fig1: Western blot analysis of Hsc70 on different cell lysate using anti-Hsc70 antibody at 1/2,000 dilution. Positive control □ Lane1: Hela Lane2: A431 Lane3: NIH-3T3 Lane4: PC-12



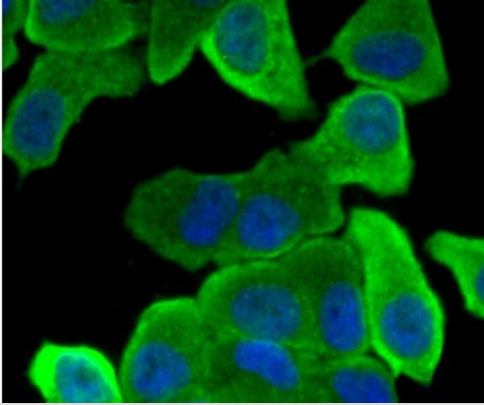
Application
 Fig2: ICC staining Hsc70 in Hela cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Application
 Fig3: ICC staining Hsc70 in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



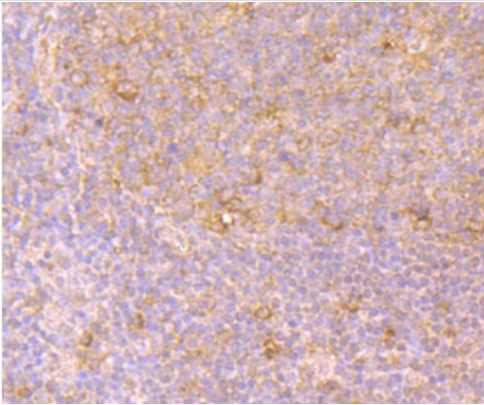
Application

Fig4: ICC staining Hsc70 in SK-Br-3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



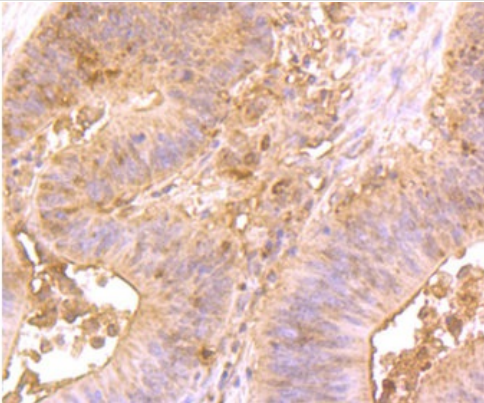
Application

Fig5: Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Hsc70 antibody. Counter stained with hematoxylin.



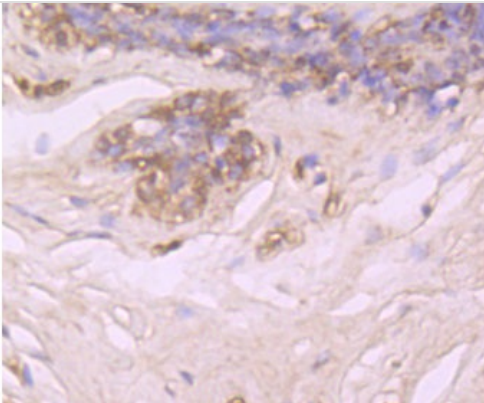
Application

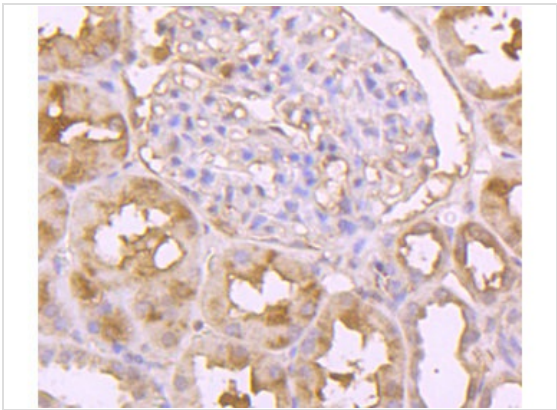
Fig6: Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-Hsc70 antibody. Counter stained with hematoxylin.



Application

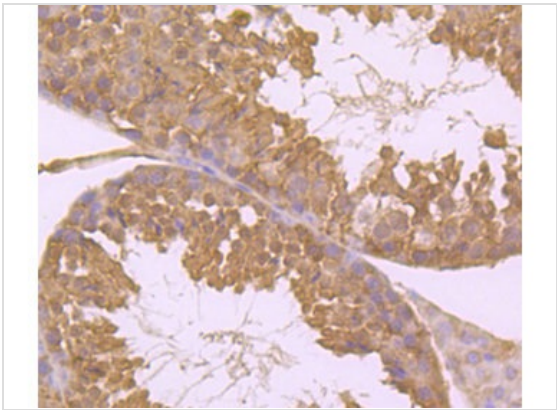
Fig7: Immunohistochemical analysis of paraffin-embedded human breast tissue using anti-Hsc70 antibody. Counter stained with hematoxylin.





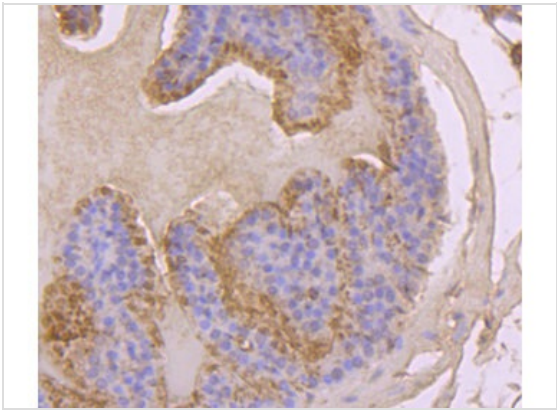
Application

Fig8: Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Hsc70 antibody. Counter stained with hematoxylin.



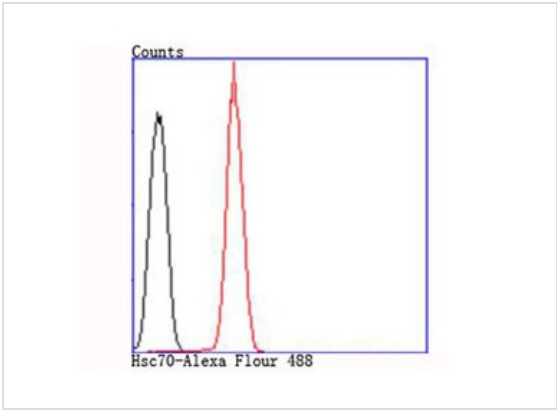
Application

Fig9: Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-Hsc70 antibody. Counter stained with hematoxylin.



Application

Fig10: Immunohistochemical analysis of paraffin-embedded mouse prostate tissue using anti-Hsc70 antibody. Counter stained with hematoxylin.



Application

Fig11: Flow cytometric analysis of Jurkat cells with Hsc70 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black).

Positive Control	Hela, A431, NIH-3T3, PC-12, Jurkat, A549, SK-Br-3, human tonsil tissue, human colon cancer tissue, human breast tissue, human kidney tissue, mouse testis tissue, mouse prostate tissue.
Application Notes	WB:1:500~1:2000 ICC:1:200~1:500 IHC:1:50~1:200 FC:1:200~1:500 Notes:Optimal dilutions/concentrations should be determined by the researcher.

Additional Information

Form	Liquid
Storage Instructions	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage Buffer	1*TBS (pH7.4), 0.5%BSA, 50%Glycerol. Preservative: 0.05% Sodium Azide.
Note	The product is for research use only,not for use in diagnostic or therapeutic procedures.

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