Hsc70 Rabbit mAb

Catalog No: #48652

Package Size: #48652-1 50ul #48652-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

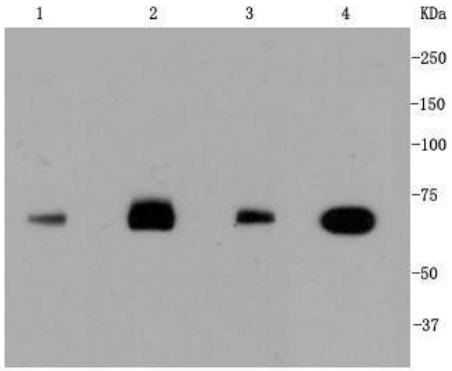
Description

Product Name	Hsc70 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SR39-04
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other 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 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-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
Accession No.	Swiss-Prot#:P11142
Uniprot	P11142
GeneID	3312;
Calculated MW	70 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

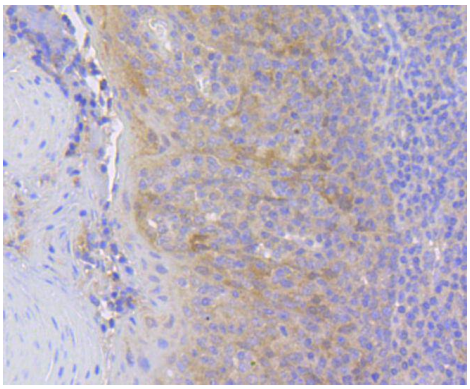
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200ICC: 1:50-1:200

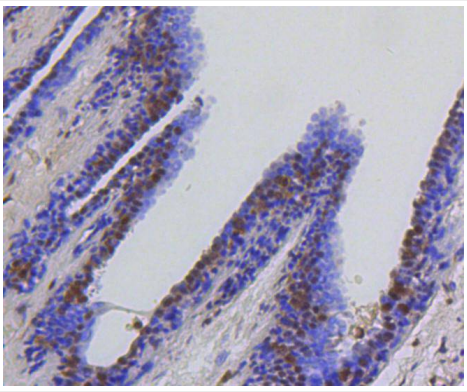
Images



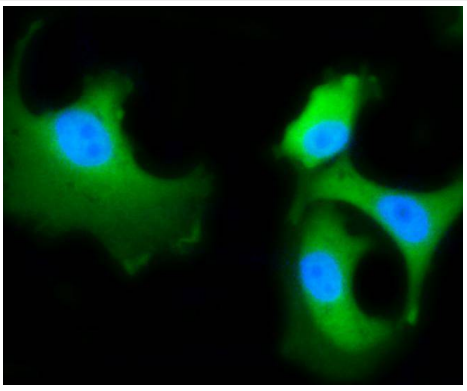
Western blot analysis of Hsc70 on different lysates using anti-Hsc70 antibody at 1/1,000 dilution. Positive control:
Lane 1: HepG2 Lane 2: Hela Lane 3: NIH/3T3
Lane 4: PC-12



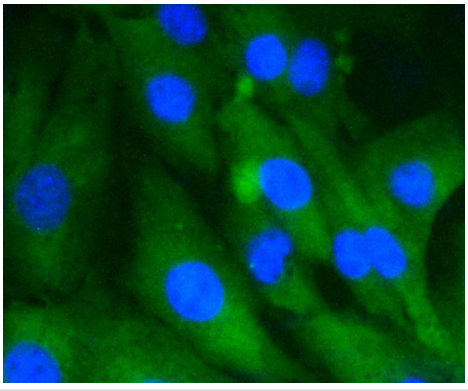
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Hsc70 antibody. Counter stained with hematoxylin.



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



ICC staining Hsc70 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Hsc70 in NIH/3T3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

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.

References

Note: This product is for in vitro research use only