

HSC 70 Rabbit monoclonal antibody

Catalog: BS9859M

Host: Rabbit

Reactivity: Human, Mouse, Rat

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 (heat shock cognate protein 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.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 71 kDa

Swiss-Prot:

P11142

Purification&Purity:

Protein A affinity purified

Applications:

WB: 1:1000-1:2000

ICC/IF: 1:50-1:200

IHC: 1:50-1:200

Storage&Stability:

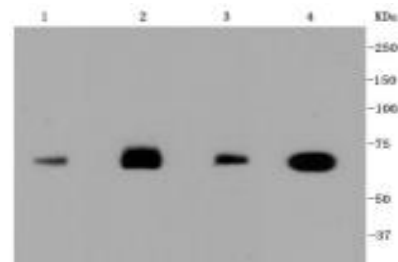
Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

This antibody detects endogenous levels of HSC 70 and

does not cross-react with related proteins.

DATA:



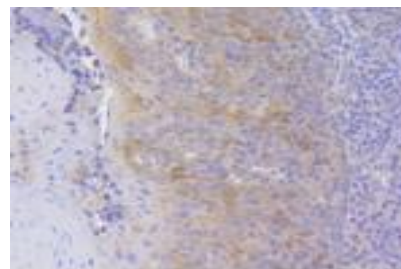
Western blot (WB) analysis of HSC 70 Rabbit mAb at 1:1000 dilution

Lane1:HepG2 whole cell lysate

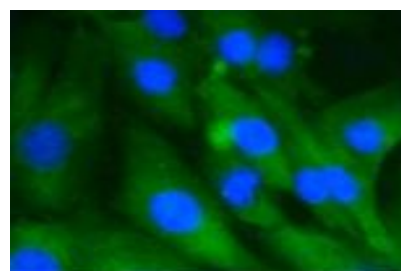
Lane2:HeLa whole cell lysate

Lane3:NIH/3T3 whole cell lysate

Lane4:PC12 whole cell lysate



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



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 *100/PBS.

Note:

For research use only, not for use in diagnostic procedure.

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