

HSC70 monoclonal antibody

Catalog: MB65954

Host: Mouse

Reactivity: Human, Mouse, Rat

BackGround:

HSPA8, alternately known as HSC70 or HSP73, is a constitutively expressed member of the HSP70 superfamily. Although its primary role in cells appears to be that of a general chaperone for unfolded proteins, HSPA8 has also been identified as the uncoating ATPase responsible for removing clathrin from coated vesicles and may also play a role in stabilizing untranslated mRNAs. In addition to these "housekeeping" functions, HSPA8 may also have an important role in inducible cellular stress responses. For example, oxidative or thermal stress promotes the nuclear/nucleolar accumulation of HSPA8, where it forms a complex with the topoisomerase I complex and likely protects it from heat inactivation. HSPA8 is reportedly phosphorylated in response to DNA damage, but it remains unclear what effect, if any, this has on HSPA8 function. Numerous high throughput studies support this observation. For more information, please see the HSPA8 page in PhosphoSitePlus® at www.phosphosite.org.

Product:

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 70 kDa

Swiss-Prot:

P11142

Purification&Purity:

The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB (1/2000 - 1/5000), IHC (1/50 - 1/200)

Storage&Stability:

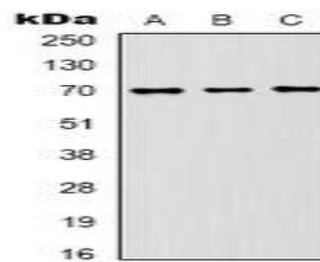
Store at 4 °C short term. Aliquot and store at -20 °C long

term. Avoid freeze-thaw cycles.

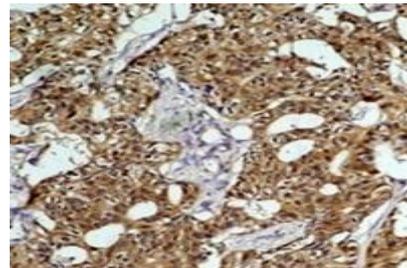
Specificity:

Recognizes endogenous levels of HSC70 protein.

DATA:



Western blot analysis of HSC70 expression in HeLa (A), mouse brain (B), rat brain (C) whole cell lysates.



Immunohistochemical analysis of HSC70 staining in human breast 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.

Note:

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

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