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Product datasheet for AM00070PU-N

HSP27 (HSPB1) pSer82 (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 5B9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	5B9
Applications:	IHC, WB
Recommended Dilution:	**Western Blot:** 0.5 µg/ml for HRPO/ECL detection. *Recommended blocking buffer:* Casein/Tween 20 based blocking and blot incubation buffer. *Included Positive Control:* Cell lysate from EGF-treated HepG2 cells (See **Protocols** for more details). **Immunohistochemistry on Frozen Sections.**
Reactivity:	Canine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Synthetic phosphopeptide conjugated to KLH. Epitope: R Q L pS S G V
Specificity:	This antibody specifically interacts with HSP27 phosphorylated at Serine 82 and does not crossreact with the non-phosphorylated HSP27 nor with unrelated Serine-phosphorylated proteins.
Formulation:	1 ml PBS containing 0.09% Sodium Azide, PEG and Sucrose State: Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore with 1 ml H2O (15 min, RT).
Purification:	Size Exclusion Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized (preferably in a desiccator) at -20°C and reconstituted (aliquote and freeze in liquid nitrogen) at -80°C. Avoid repeated freezing and thawing. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.
Stability:	Shelf life: one year from despatch.

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Gene Name: heat shock protein family B (small) member 1

Database Link: Entrez Gene 3315 Human
P04792

Background: The small heat shock protein hsp27 is constitutively expressed in most cell lines. The expression level is increased in response to environmental stress. Activation of the p38 kinases results in subsequent activation of MAPKAP2 that phosphorylates hsp27 at Ser15, Ser78 and Ser82.

Synonyms: Heat shock protein beta-1, Heat shock 27 kDa protein, HSP28, 28 kDa heat shock protein, SRP27, HSP25

Note: Protocol: **Positive Control Cell Lysate: HepG2 EGF treated**

Format: Lyophilized cell lysate from HepG2 cells.
Serum starved cells were treated for 15 min with EGF.

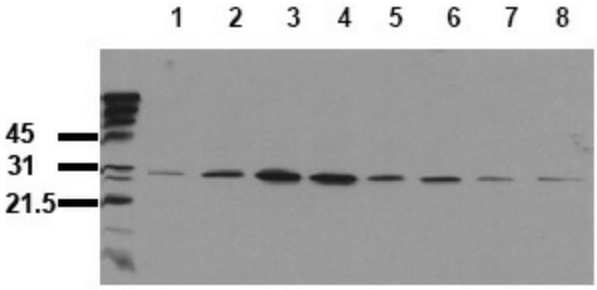
Reconstitution: Reconstitute by addition of 200 µl H2O. After complete solubilization add 200 µl 2x SDS-PAGE sample buffer, mix and incubate at 90 °C for 5 min.

Application: The positive control cell lysate is recommended for immunoblot applications. 20 µl positive control cell lysate correspond to approx. 80.000 cells.
Use 20 µl / lane (mini gel) for HRPO/ECL detection of the target proteins.

Note: The lyophilized cell lysates contain SDS and are not recommended for applicatioins with native proteins such as Immunoprecipitation.

Storage: Aliquot and store frozen. Avoid repeated freeze/thaw cycles.

Product images:



HSP 27 activation Serum starved HepG2 cells were incubated with 10 ng/ml EGF for the indicated times. Whole cell lysates were prepared with lysis buffer V19 and separated by SDS-PAGE (ca 20.000 cells/lane). Immunoblots were probed with mab hsp27-5B9 (0.5 ug/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec). Lane 1: Control Lane 2: 5 min EGF Lane 3: 15 min EGF Lane 4: 30 min EGF Lane 5: 1h EGF Lane 6; 2h EGF Lane 7: 4h EGF Lane 8: 8h EGF