

HSP25 Antibody [clone IAP-9] (R30041)

Catalog No.	Formulation	Size
R30041	0.5mg/ml with 1% BSA and 0.01% sodium azide if reconstituted with 0.2ml sterile 1X PBS	100 ug

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Availability	1-3 business days
Species Reactivity	Human, Rat, Mouse, Rabbit
Format	Ascites
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1
Clone Name	IAP-9
Purity	Ascites
Gene ID	3315
Applications	Western Blot : 0.5-2ug/ml IHC (FFPE) : 1-2ug/ml (1) IHC (Frozen) : 1-2ug/ml--formalin or acetone fixed tissues Immunocytochemistry : Suitable
Limitations	This HSP25 antibody is available for research use only.



Description

The heat-shock proteins(HSPs) belong to a larger group of polypeptides, the stress proteins, that are induced in various combinations in response to environmental challenges and developmental transitions. Heat-shock 27-kD protein1also knows as HSPB. Synthesis of the small(27-kD) HSP has been shown to be correlated with the acquisition of

thermotolerance. HSP27 gene is mapped to 7q11.23. Mutant small heat-shock protein 27 causes axonal Charcot-Marie-Tooth disease and distal hereditary motor neuropathy. Heat shock protein 27 prevents cellular polyglutamine toxicity and suppresses the increase of reactive oxygen species caused by huntingtin.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the HSP25 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

1. Boil sections in 10mM Citrate buffer, pH6, to improve staining.

Immunogen

Partially purified inhibitor of actin polymerization (IAP) protein from turkey gizzard smooth muscle was used as the immunogen for this HSP25 antibody.

Storage

After reconstitution, the HSP25 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.