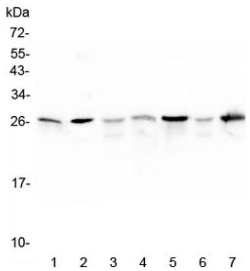
Hsp27 Antibody (RQ4574)

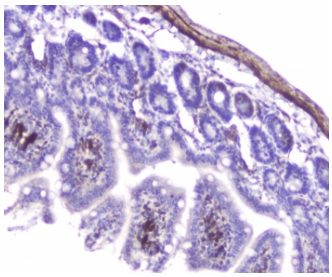
Catalog No.	Formulation	Size
RQ4574	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

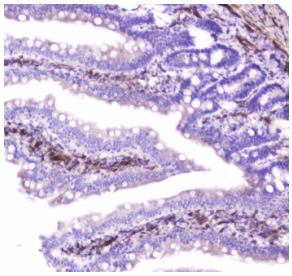
Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P14602
Localization	Predominantly cytoplasmic with some nuclear
Applications	Western blot: 0.5-1ug/ml IHC (FFPE): 2-3ug/ml Direct ELISA: 0.1-0.5ug/ml (recombinant mouse protein)



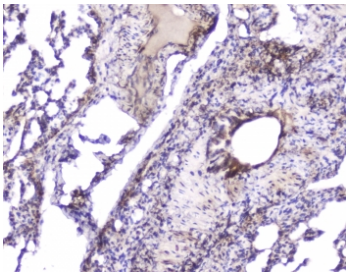
Western blot testing of 1) rat skeletal muscle, 2) rat lung and mouse 3) spleen, 4) skeletal muscle, 5) lung, 6) liver and 7) testis lysate with Hsp27 antibody at 0.5ug/ml. Predicted molecular weight: 23-27 kDa.



IHC staining of FFPE mouse small intestine with Hsp27 antibody at 2ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



IHC staining of FFPE rat small intestine with Hsp27 antibody at 2ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



IHC staining of FFPE rat lung with Hsp27 antibody at 2ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.

Description

HSPB1 (Heat shock 27kDa protein 1), also known as HSP27, is a protein that in humans is encoded by the HSPB1 gene. It is mapped to 7q11.23. The protein encoded by this gene is induced by environmental stress and developmental changes. The encoded protein is involved in stress resistance and actin organization and translocates from the cytoplasm to the nucleus upon stress induction. Defects in this gene are a cause of Charcot-Marie-Tooth disease type 2F (CMT2F) and distal hereditary motor neuropathy (dHMN).

For an additional monoclonal antibody to HSPB1 with Protein Microarray Validated specificity data, see our HSPB1 Antibody / Heat Shock Protein Beta-1 Antibody page.

Application Notes

Optimal dilution of the Hsp27 antibody should be determined by the researcher.

Immunogen

Amino acids M1-K209 from the mouse protein were used as the immunogen for the Hsp27 antibody.

Storage

After reconstitution, the Hsp27 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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