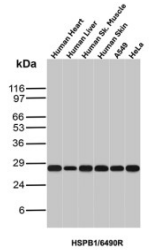
Recombinant HSP27 Antibody / HSPB1 [clone HSPB1/6490R] (V9277)

Catalog No.	Formulation	Size
V9277-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9277-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9277SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

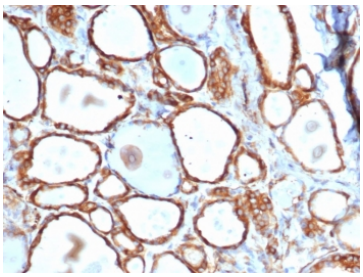
Recombinant RABBIT MONOCLONAL

Bulk quote request

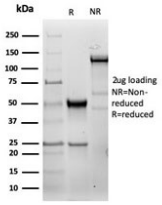
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	HSPB1/6490R
Purity	Protein A/G affinity
UniProt	P04792
Localization	Predominantly cytoplasmic with some nuclear
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This recombinant HSP27 antibody is available for research use only.



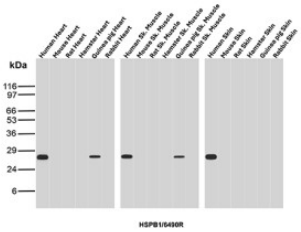
Recombinant HSP27 Antibody HSPB1/6490R Detection in Human Tissues and Cell Lines WB. Western blot analysis of human heart, liver, skeletal muscle and skin tissue lysates, and A549 and HeLa cell lysates using Recombinant HSP27 Antibody clone HSPB1/6490R shows a strong, discrete band at approximately 27-28 kDa in all six samples, consistent with the expected migration of HSPB1/HSP27. Minimal background is observed across the tissue and cell lysates.



IHC staining of FFPE human thyroid with recombinant HSP27 antibody (clone HSPB1/6490R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free recombinant HSP27 antibody (clone HSPB1/6490R) as confirmation of integrity and purity.



Recombinant HSP27 Antibody HSPB1/6490R Detection Across Multiple Species WB. Western blot analysis of heart, skeletal muscle and skin tissue lysates from human, mouse, rat, guinea pig, hamster and rabbit using Recombinant HSP27 Antibody clone HSPB1/6490R. Strong bands at approximately 27-28 kDa are detected in human heart, skeletal muscle and skin, with weaker bands in guinea pig heart and hamster skeletal muscle. Little to no corresponding signal is observed in the remaining samples, demonstrating species-dependent recognition of HSPB1/HSP27 by this recombinant rabbit monoclonal antibody.

Description

HSP27, also referred to as Heat shock protein beta-1 (HSPB1), Estrogen-Regulated 24K protein, and HSP28, is one of several small heat shock proteins produced by all organisms studied. HSP27 synthesis is induced by elevated temperature, as well as by estrogen in hormone responsive cells. Interestingly, human HSP27 also shares greater than 50% homology with low molecular weight Drosophila HSPs and mammalian -crystalline lens protein. Because of the estrogen responsive nature of HSP27, this protein has been studied extensively in human estrogen responsive tissues such as cervix, endometrium and breast tissue. Therefore, HSP27 may be useful in classifying various hormone sensitive tumors.

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 recombinant HSP27 antibody should be determined by the researcher.

Immunogen

Recombinant human full-length HSP27 protein was used as the immunogen for the recombinant HSP27 antibody.

Storage

Aliquot the recombinant HSP27 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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