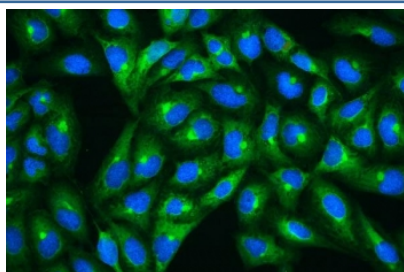


HSP27 Antibody (R31650)

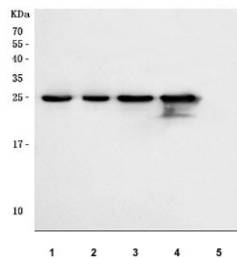
Catalog No.	Formulation	Size
R31650	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

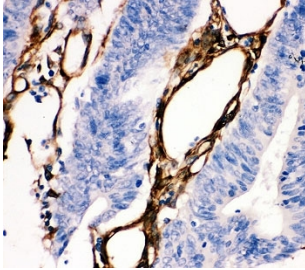
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
Gene ID	3315
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry : 1-2ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This HSP27 antibody is available for research use only.



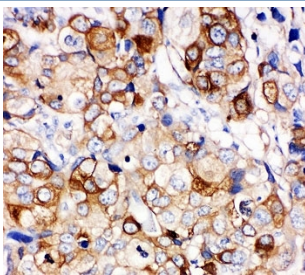
Immunofluorescent staining of FFPE human U-2 OS cells with HSP27 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



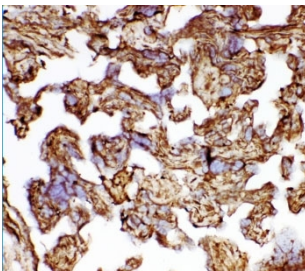
Western blot testing of human 1) A549, 2) Caco-2, 3) HeLa, 4) MCF7 and 5) HT-1080 cell lysate with HSP27 antibody. Expected molecular weight: 23-27 kDa.



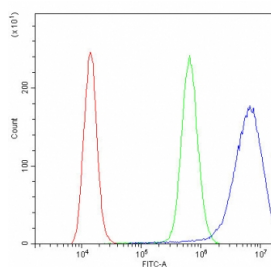
IHC staining of FFPE human intestinal cancer tissue with HSP27 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



IHC staining of FFPE human breast cancer tissue with HSP27 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



IHC staining of frozen human placental tissue with HSP27 antibody.



Flow cytometry testing of fixed and permeabilized human A431 cells with HSP27 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= HSP27 antibody.

Description

HSPB1 (Heat shock 27kDa protein 1), also known as HSP27, is a protein that in humans is encoded by the HSPB1 gene. The protein encoded by this gene is induced by environmental stress and developmental changes. HSP27 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).

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the HSP27 antibody may be required

due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 1-205) was used as the immunogen for this HSP27 antibody.

Storage

After reconstitution, the HSP27 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.