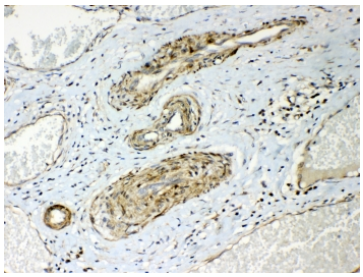
HSP22 Antibody / Small Heat Shock Protein Antibody (R32797)

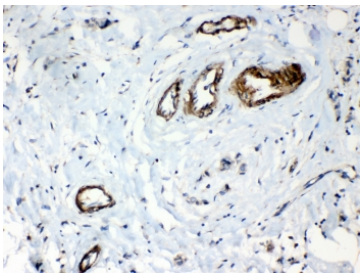
Catalog No.	Formulation	Size
R32797	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

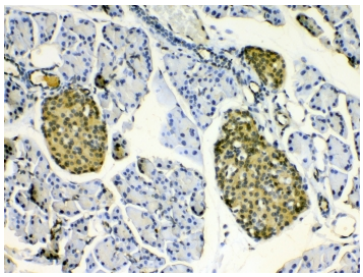
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q9UJY1
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 1-2ug/ml Immunofluorescence (FFPE): 5ug/ml Flow cytometry: 1-3ug/million cells Immunoprecipitation: 2ug antibody/500ug lysate
Limitations	This HSP22 Antibody / Small Heat Shock Protein Antibody is available for research use only.



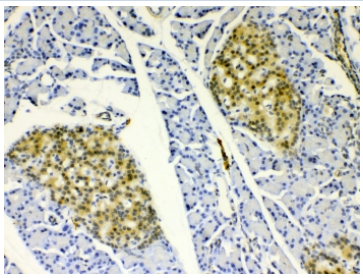
HSP22 Antibody Human Lung Cancer IHC. Immunohistochemistry staining of FFPE human lung cancer tissue with HSP22 Antibody at 1 ug/ml. HIER was performed by steaming tissue sections in pH 6 citrate buffer for 20 minutes prior to staining. The tissue section was incubated with HSP22 antibody, followed by HRP-conjugated secondary antibody and DAB chromogen detection. HSP22 Antibody / Small Heat Shock Protein Antibody demonstrates cytoplasmic staining in lung cancer cells and supports studies of HSPB8 expression, molecular chaperone activity, protein quality control and cellular stress response pathways.



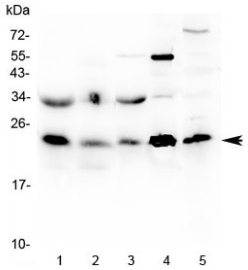
HSP22 Antibody Human Breast Cancer IHC. Immunohistochemistry staining of FFPE human breast cancer tissue with HSP22 Antibody at 1 ug/ml. HIER was performed by steaming tissue sections in pH 6 citrate buffer for 20 minutes prior to staining. The tissue section was incubated with HSP22 antibody, followed by HRP-conjugated secondary antibody and DAB chromogen detection. HSP22 Antibody / Small Heat Shock Protein Antibody demonstrates cytoplasmic staining in breast cancer cells and supports studies of HSPB8 expression, molecular chaperone function, protein homeostasis and cancer-associated cellular stress response pathways.



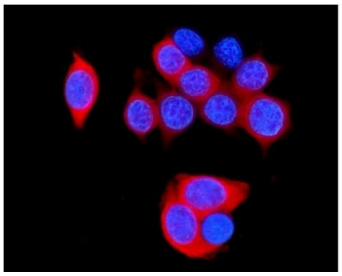
HSP22 Antibody Mouse Pancreas IHC. Immunohistochemistry staining of FFPE mouse pancreas tissue with HSP22 Antibody at 1 ug/ml. HIER was performed by steaming tissue sections in pH 6 citrate buffer for 20 minutes prior to staining. The tissue section was incubated with HSP22 antibody, followed by HRP-conjugated secondary antibody and DAB chromogen detection. HSP22 Antibody / Small Heat Shock Protein Antibody demonstrates strong pancreatic islet staining consistent with HSPB8 expression and supports studies of molecular chaperone activity, protein quality control and cellular stress response pathways.



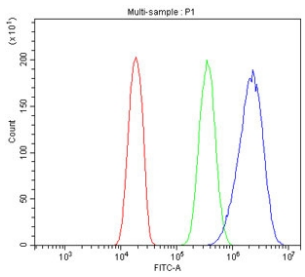
HSP22 Antibody Rat Pancreas IHC. Immunohistochemistry staining of FFPE rat pancreas tissue with HSP22 Antibody at 1 ug/ml. HIER was performed by steaming tissue sections in pH 6 citrate buffer for 20 minutes prior to staining. The tissue section was incubated with HSP22 antibody, followed by HRP-conjugated secondary antibody and DAB chromogen detection. HSP22 Antibody / Small Heat Shock Protein Antibody demonstrates strong pancreatic islet staining consistent with HSPB8 expression and supports studies of molecular chaperone activity, protein homeostasis and cellular stress response regulation pathways.



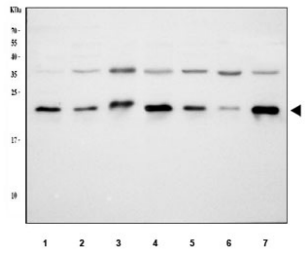
HSP22 Antibody Muscle and HeLa Cell WB. Western blot testing of rat skeletal muscle, rat heart, mouse skeletal muscle, mouse heart and human HeLa lysates with HSP22 Antibody at 0.5 ug/ml. Lane 1: rat skeletal muscle; Lane 2: rat heart; Lane 3: mouse skeletal muscle; Lane 4: mouse heart; Lane 5: human HeLa. HSP22 was detected at approximately 22-27 kDa, consistent with the expected molecular weight of HSPB8. HSP22 Antibody / Small Heat Shock Protein Antibody supports studies of molecular chaperone activity, protein quality control and cellular stress response pathways.



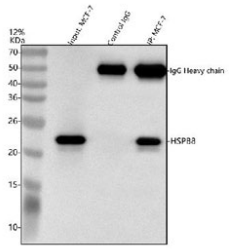
HSP22 Antibody MCF7 Cell IF. Immunofluorescent staining of FFPE human MCF7 cells with HSP22 Antibody (red) and DAPI nuclear stain (blue). HIER was performed by steaming sections in pH 6 citrate buffer for 20 minutes prior to staining. The cells were incubated with HSP22 antibody, followed by fluorescent secondary antibody detection. HSP22 Antibody / Small Heat Shock Protein Antibody demonstrates cytoplasmic staining consistent with HSPB8 expression and supports studies of molecular chaperone activity, protein quality control, cellular stress responses and cancer biology pathways.



HSP22 Antibody U-2 OS Cell FACS. Flow cytometry testing of fixed and permeabilized human U-2 OS cells with HSP22 Antibody at 1 ug/million cells. Cells were blocked with goat serum prior to incubation with HSP22 antibody, followed by fluorescent secondary antibody detection. Red: cells alone; Green: isotype control; Blue: HSP22 antibody. HSP22 Antibody / Small Heat Shock Protein Antibody demonstrates increased fluorescence intensity consistent with intracellular HSPB8 expression and supports studies of molecular chaperone activity, protein quality control and cellular stress response pathways.



HSP22 Antibody Human, Mouse and Rat WB. Western blot testing of human MCF7, human U-87 MG, rat H9C2, rat heart, rat C2C12, mouse skeletal muscle and mouse heart lysates with HSP22 Antibody at 0.5 ug/ml. Lane 1: human MCF7; Lane 2: human U-87 MG; Lane 3: rat H9C2; Lane 4: rat heart; Lane 5: rat C2C12; Lane 6: mouse skeletal muscle; Lane 7: mouse heart. HSP22 was detected at approximately 22-27 kDa, consistent with the expected molecular weight of HSPB8. HSP22 Antibody / Small Heat Shock Protein Antibody supports studies of molecular chaperone activity, protein homeostasis and cellular stress response pathways.



HSP22 Antibody MCF7 Cell IP. Immunoprecipitation of HSP22 from human MCF7 whole cell lysate using HSP22 Antibody. MCF7 lysate input and immunoprecipitated samples were analyzed by Western blot, with rabbit control IgG included as a negative control. HSP22 antibody was used at 2 ug for immunoprecipitation, and a specific band was detected at approximately 22-27 kDa, consistent with the expected molecular weight of HSPB8. HSP22 Antibody / Small Heat Shock Protein Antibody supports protein interaction studies and analysis of molecular chaperone activity, protein quality control and cellular stress response pathways.

Description

HSP22 Antibody / Small Heat Shock Protein Antibody detects HSPB8, a member of the small heat shock protein family involved in protein quality control, cellular stress responses and molecular chaperone activity. HSP22, also known as Heat Shock Protein Beta 8, belongs to the alpha crystallin-related family of stress response proteins that help maintain cellular homeostasis by regulating protein stability and preventing accumulation of misfolded proteins. This chaperone protein is studied for its roles in proteostasis, autophagy-related pathways and cellular adaptation to stress conditions.

Small heat shock proteins function as ATP-independent molecular chaperones that interact with unfolded or damaged proteins to support proper folding and turnover. HSP22 participates in cellular protein maintenance pathways and works with additional chaperone systems involved in degradation of damaged proteins. Through these activities, HSP22 contributes to regulation of stress tolerance, protein aggregation control and maintenance of normal cellular function. HSP22 Antibody is commonly used by researchers studying chaperone biology, protein homeostasis, stress signaling and cellular protective mechanisms.

Research involving HSPB8 has demonstrated important connections between small heat shock proteins and multiple biological systems, including muscle, neuronal and cancer research models. HSP22 has been investigated for roles in autophagy-associated protein clearance, cytoskeletal regulation and cellular survival pathways. Because disruption of protein quality control mechanisms is associated with many areas of disease research, analysis of HSP22 expression provides insight into pathways controlling protein folding and stress adaptation.

HSP22 is also studied in relation to neurobiology and neuromuscular function due to its involvement in maintaining protein balance in long-lived and highly specialized cells. As part of broader heat shock protein networks, HSPB8 contributes to cellular responses that protect against proteotoxic stress and regulate damaged protein removal. Detection of HSP22 expression supports research into molecular chaperone systems, intracellular stress responses and mechanisms controlling cellular health.

HSP22 Antibody applications include detection of HSPB8 expression, localization and regulation in biological samples using techniques such as Western blot, immunohistochemistry, immunofluorescence and related protein analysis methods. NSJ Bioreagents provides HSP22 Antibody / Small Heat Shock Protein Antibody for researchers studying heat shock proteins, molecular chaperones, protein quality control and cellular stress response pathways.

HSP22 Antibody detects a small heat shock protein involved in molecular chaperone activity, protein quality control and cellular stress responses, making it a useful marker for research areas featured in our Cell Biology Antibodies page.

Application Notes

Optimal dilution of the HSP22 Antibody / Small Heat Shock Protein Antibody should be determined by the researcher.

Immunogen

Amino acids M1-T196 from the human protein were used as the immunogen for the HSP22 antibody.

Storage

After reconstitution, the HSP22 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

HSPB8 Antibody, Heat Shock Protein 22 Antibody, Heat Shock Protein Beta 8 Antibody, H11 Kinase Antibody, Small Heat Shock Protein HSP22 Antibody, Chaperone Protein Antibody

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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