abcam

Product datasheet

Anti-Hsp22/HSPB8 antibody [EPR9714] ab151552

KO VALIDATED Recombinant RabMAb

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Overview

Product name	Anti-Hsp22/HSPB8 antibody [EPR9714]
Description	Rabbit monoclonal [EPR9714] to Hsp22/HSPB8
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, IHC-P, WB **Unsuitable for:** IP
Species reactivity	**Reacts with:** Mouse, Human **Predicted to work with:** Rat
Immunogen	Synthetic peptide corresponding to Human Hsp22/HSPB8. The immunogen used for this product shares 64% homology with Hsp27. Cross-reactivity with this protein has not been confirmed experimentally.
Positive control	Fetal heart and fetal muscle lysates; HeLa cell lysate; Human skeletal muscle tissue; A673 cells
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20ºC.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR9714
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab151552 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

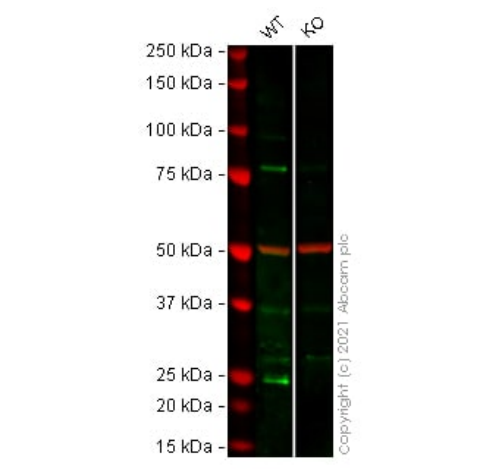
Application	Abreviews	Notes
ICC/IF		1/50 - 1/100.
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB	★★★★★ (1)	1/1000 - 1/10000. Predicted molecular weight: 21 kDa.

Application notes Is unsuitable for IP.

Target

Function	Displays temperature-dependent chaperone activity.
Tissue specificity	Predominantly expressed in skeletal muscle and heart.
Involvement in disease	Neuronopathy, distal hereditary motor, 2A Charcot-Marie-Tooth disease 2L
Sequence similarities	Belongs to the small heat shock protein (HSP20) family.
Cellular localization	Cytoplasm. Nucleus. Translocates to nuclear foci during heat shock.

Images



Western blot - Anti-Hsp22/HSPB8 antibody [EPR9714] (ab151552)

All lanes : Anti-Hsp22/HSPB8 antibody [EPR9714] (ab151552) at 1/1000 dilution

Lane 1 : Wild-type HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate
Lane 2 : HSPB8 knockout HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

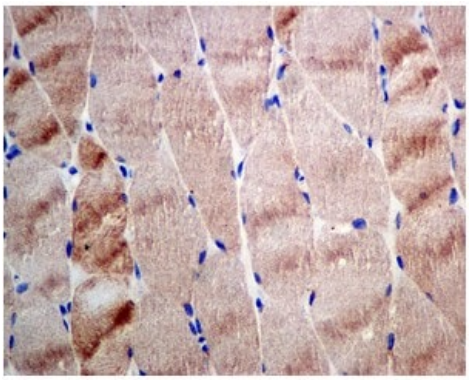
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 21 kDa
Observed band size: 21 kDa

Lanes 1 - 2: Merged signal (red and green). Green - ab151552 observed at 212 kDa. Red - loading control **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) observed at 55 kDa.

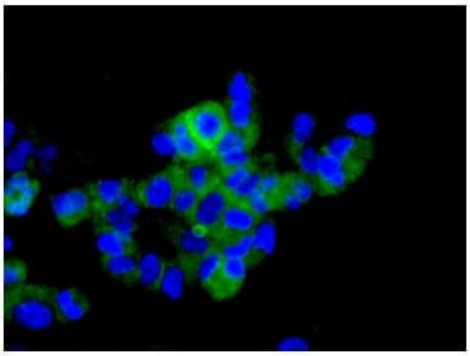
ab151552 was shown to react with Hsp22/HSPB8 in wild-type HeLa cells in Western blot with loss of signal observed in HSPB8 knockout cell line **ab265112** (HSPB8 knockout cell lysate **ab257468**). Wild-type HeLa and HSPB8 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with ab151552 and **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) overnight at 4 °C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp22/HSPB8 antibody [EPR9714] (ab151552)

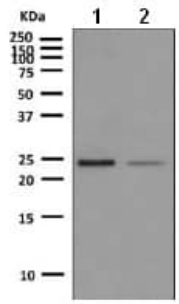
Immunohistochemical analysis of paraffin-embedded Human skeletal muscle tissue labeling Hsp22/HSPB8 with ab151552 at 1/50 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-Hsp22/HSPB8 antibody [EPR9714] (ab151552)

Immunofluorescent analysis of A673 cells labeling Hsp22/HSPB8 with ab151552 at 1/50 dilution.



Western blot - Anti-Hsp22/HSPB8 antibody [EPR9714] (ab151552)

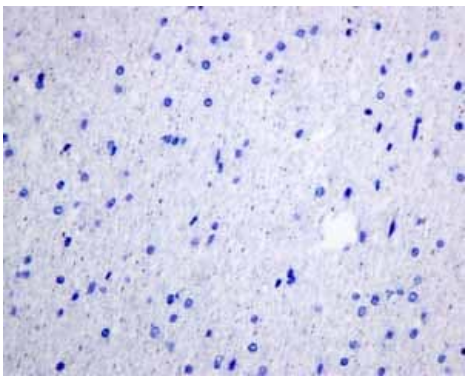
All lanes : Anti-Hsp22/HSPB8 antibody [EPR9714] (ab151552) at 1/1000 dilution

Lane 1 : Fetal heart lysate
Lane 2 : Fetal muscle lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : HRP labeled goat anti-rabbit at 1/2000 dilution

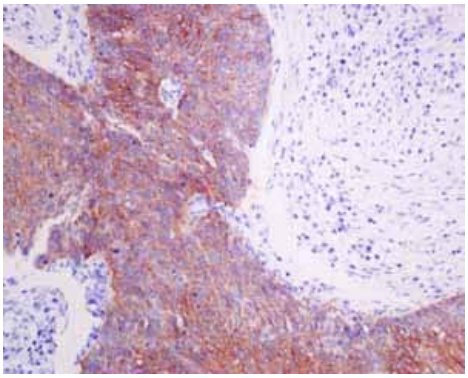
Predicted band size: 21 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp22/HSPB8 antibody [EPR9714] (ab151552)

Immunohistochemical analysis of paraffin embedded normal Human brain tissue using ab151552 showing -ve staining.

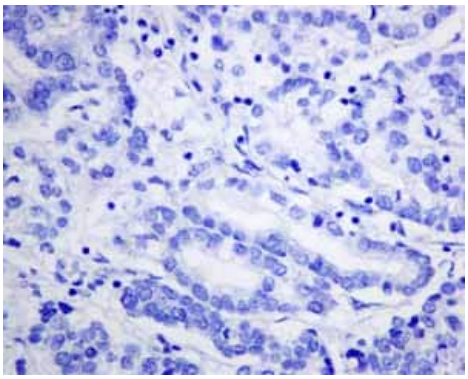
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp22/HSPB8 antibody [EPR9714] (ab151552)

Immunohistochemical analysis of paraffin embedded Human Cervical carcinoma tissue using ab151552 showing +ve staining.

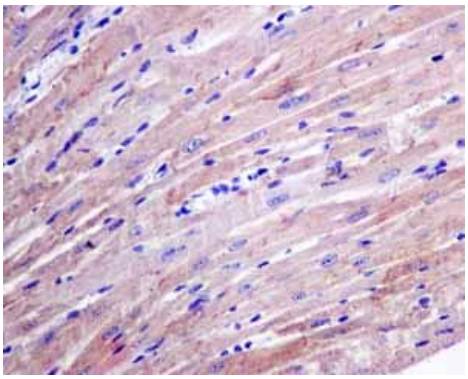
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp22/HSPB8 antibody [EPR9714] (ab151552)

Immunohistochemical analysis of paraffin embedded Human Gastric carcinoma tissue using ab151552 showing -ve staining.

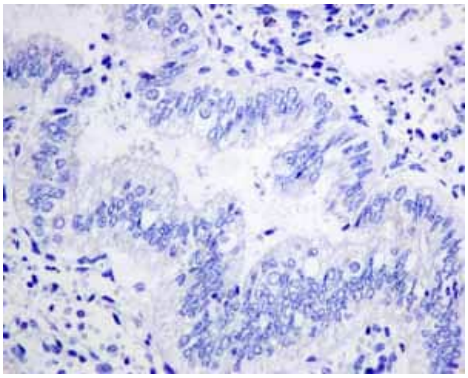
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp22/HSPB8 antibody [EPR9714] (ab151552)

Immunohistochemical analysis of paraffin embedded Mouse brain tissue using ab151552 showing +ve staining.

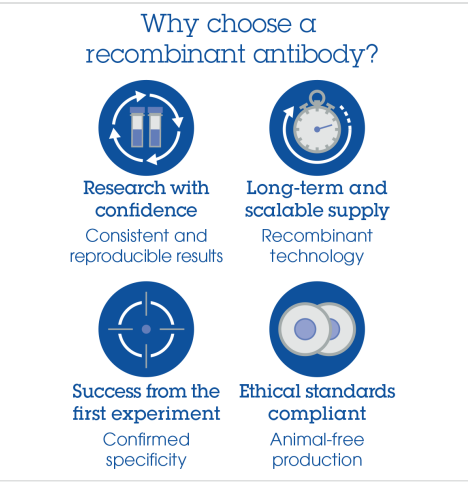
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp22/HSPB8 antibody [EPR9714] (ab151552)

Immunohistochemical analysis of paraffin embedded normal Human uterus tissue using ab151552 showing -ve staining.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Anti-Hsp22/HSPB8 antibody [EPR9714] (ab151552)

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