

Datasheet for ABIN361852

anti-HSPB8 antibody

4 Images

1 Publication

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Overview

Quantity:	100 µL
Target:	HSPB8
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HSPB8 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Immunoprecipitation (IP)

Product Details

Immunogen:	Human HSP22
Specificity:	Detects ~22 kDa. Does not cross-react with HSP27 or alpha-crystallin.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Peptide Affinity Purified

Target Details

Target:	HSPB8
Alternative Name:	HSP22 (HSPB8 Products)
Background:	HSP22 (HSPB8) is a 196-amino acid protein that is a member of the small heat shock protein super-family and the human protein is most closely related to HSP27. Similar to most other sHSPs, HSP22 is predominately transcribed in skeletal muscle and heart, as well as the

Target Details

placenta (1). HSP22 is a monomeric protein which interacts with HSPB1. It displays temperature-dependent chaperone activity. In a two hybrid screen, HSPB8 interacted preferentially with a triple aspartate form of HSP27 which mimics HSP27 phosphorylated at Ser15, Ser78, and Ser82, as compared to wild-type HSP27 (2). HSPB8 has two binding domains (N and C Terminal) that are specific for different binding partners, and has the ability to bind itself and other sHSPs (3). The chaperone-like activity is of great importance to the function of HSP22 in various processes including proliferation, apoptosis and macro autophagy (4). Mutations in the HSPB8 gene are associated with the inherited peripheral neuropathies, autosomal dominant distal hereditary motor neuropathy type IIA (dSMA) and axonal Charcot-Marie-Tooth disease type 2L (CMT2L) (5).

Gene ID: 26353

NCBI Accession: [NP_055180](#)

UniProt: [Q9UJY1](#)

Application Details

Application Notes:

- WB (1:1000)
- ICC/IF (1:100)
- IHC (1:100)
- optimal dilutions for assays should be determined by the user.

Comment: A 1:1000 dilution of ABIN361851 was sufficient for detection of HSP22 in 10 µg of rat tissue lysate by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

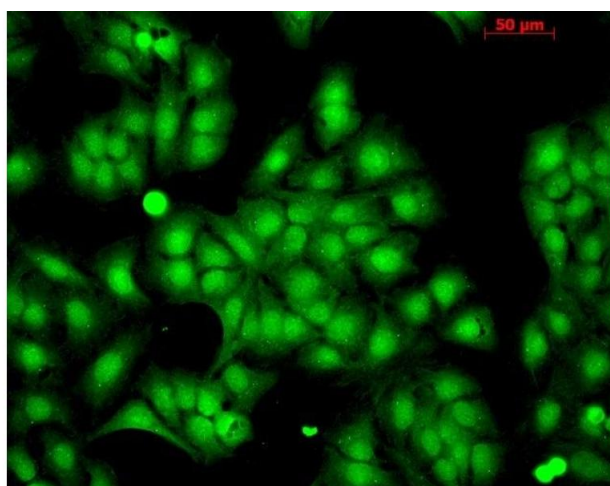
Handling

Storage Comment: -20°C

Publications

Product cited in: Toribio, Brown, Novince, Marlow, Hernon, Lanigan, Hildreth, Werbeck, Shu, Lorch, Carlton, Foley, Boyaka, McCauley, Rosol: "The midregion, nuclear localization sequence, and C terminus of PTHrP regulate skeletal development, hematopoiesis, and survival in mice." in: **FASEB journal : official publication of the Federation of American Societies for Experimental Biology**, Vol. 24, Issue 6, pp. 1947-57, (2010) ([PubMed](#)).

Images



Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-HSP22 Polyclonal Antibody (ABIN361851 and ABIN361852). Tissue: HaCaT cells. Species: Human. Fixation: Cold 100 % methanol at -20C for 10 minutes. Primary Antibody: Rabbit Anti-HSP22 Polyclonal Antibody (ABIN361851 and ABIN361852) at 1:100 for 12 hours at 4 °C. Secondary Antibody: FITC Goat Anti-Rabbit at 1:50 for 1-2 hours at RT in dark. Localization: Nuclear Staining.

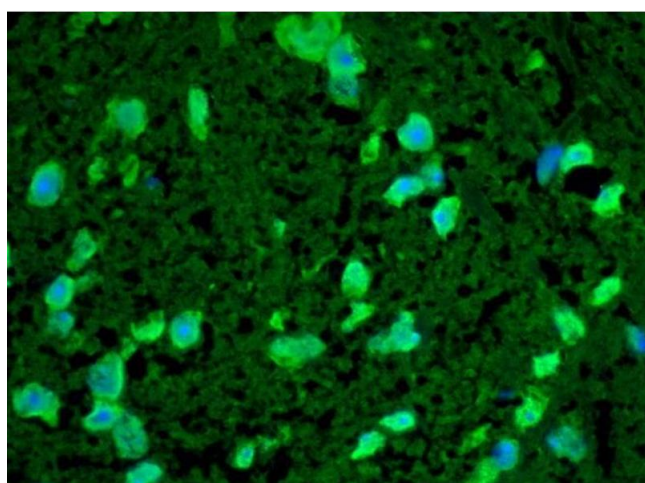
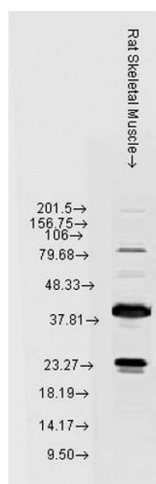


Image 2. Hsp22, Mouse Spinal Cord



Western Blotting

Image 3. Western blot analysis of Rat Skeletal muscle lysates showing detection of HSP22 protein using Rabbit Anti-HSP22 Polyclonal Antibody (ABIN361851 and ABIN361852). Load: 15 µgprotein. Block: 1.5 % BSA for 30 minutes at RT. Primary Antibody: Rabbit Anti-HSP22 Polyclonal Antibody (ABIN361851 and ABIN361852) at 1:1000 for 2 hours at RT. Secondary Antibody: Donkey Anti-Rabbit IgG: HRP for 1 hour at RT.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN361852.