

Datasheet for ABIN6656215
anti-HSPB8 antibody



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2 Images

Overview

Quantity:	100 µg
Target:	HSPB8
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HSPB8 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF)

Product Details

Purpose:	HSP22 Antibody
Immunogen:	Hsp22 Antibody was produced in mice by repeated immunizations raised against a his-tagged human recombinant hsp22.
Clone:	3C12-H11
Isotype:	IgG1 kappa
Cross-Reactivity (Details):	A BLAST analysis was used to suggest cross-reactivity with Hsp22 from human, mouse, and rat based on 100 % homology with the immunizing sequence.
Purification:	Anti-Hsp22 Antibody was purified by Protein G chromatography.
Sterility:	Sterile filtered

Target Details

Target:	HSPB8
Alternative Name:	Hsp22 (HSPB8 Products)
Background:	<p>Synonyms: Alpha crystallin C chain, CMT2L, CRYAC, DHMN2, H11, Heat shock 22 kDa protein 8, HMN2, HSB8, HspB8, Heat shock protein beta-8, E2IG1, HSP22, E2-induced gene 1 protein, Protein kinase H11</p> <p>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 placenta. 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. 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 macroautophagy. 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).</p> <p>Gene Name: HSPB8</p>
Gene ID:	26353
NCBI Accession:	NP_055180
UniProt:	Q9UJY1

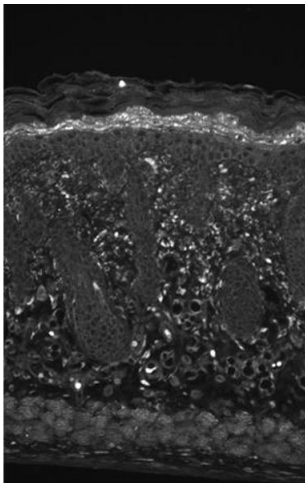
Application Details

Application Notes:	ELISA_Dilution: 1:200 Immunohistochemistry_Dilution: User Optimized Western_Blot_Dilution: 1:2000
Comment:	Anti-Hsp22 Antibody is tested for use in WB, IHC and IF. Specific conditions for reactivity should be optimized by the end user.
Restrictions:	For Research Use only

Handling

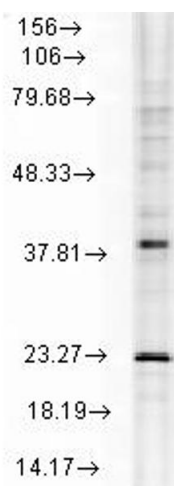
Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 50 % (v/v) Glycerol
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Images



Immunohistochemistry

Image 1. Hsp22 Immunohistochemistry. Immunohistochemistry of mouse anti-Hsp22 antibody. Tissue: mouse backskin sections. Primary Antibody: Hsp22 antibody at 1µg/ml for 1h at RT. Secondary antibody: Peroxidase mouse secondary at 1:10,000 for 45 min at RT. Localization: Nuclear and cytoplasmic.



Western Blotting

Image 2. Hsp22 Western Blot. Western Blot of mouse anti-Hsp22 antibody. Lane 1: rat tissue mix. Lane 2: none. Load: 35 µg per lane. Primary antibody: Hsp22 antibody at 1:1000 for overnight at 4°C. Secondary antibody: mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 21.6 kDa/~23 kDa, 40 kDa for Hsp22. Other band(s): Hsp22 splice variant and isoform.