Rabbit Hsp22 Polyclonal Antibody | anti-GNL3 antibody

Hsp22 Antibody: ATTO 390

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA103714	**Rabbit**	**Human, Mouse, Rat**	**Immunofluorescence, Immunoprecipitation, Immunohistochemistry, Western Blot**

PRODUCT SYNONYMS

Hsp22; Polyclonal Antibody; Hsp22 Antibody: ATTO 390; Alpha crystallin C chain; CMT2L; CRYAC; DHMN2; H11; Heat shock 22kDa protein 8; HMN2; HSB8; HspB8; anti-GNL3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Form/Format	Rabbit Antiserum
Sequence Length	456
Applicable Applications for anti-GNL3 antibody	IF (Immunofluorescence), IP (Immunoprecipitation), IHC (Immunohistochemistry), WB (Western Blot)
Conjugate	ATTO 390
Storage Buffer	Rabbit Antiserum
Preparation and Storage	-20 degree C

IMAGES

IHC (Immunohistochemistry)
Immunohistochemistry analysis using Rabbit Anti-HSP22 Polyclonal Antibody (SPC-181). Tissue: Spinal cord. Species: Mouse. Primary Antibody: Rabbit Anti-HSP22 Polyclonal Antibody (SPC-181) at 1:100. Secondary Antibody: Alexa Fluor 488 Goat Anti-Rabbit. DAPI merged with Alexa 488. Courtesy of: Joy Irobi-Devolder, University of Antwerp, Belgium.

IHC (Immunohistochemisry)
Immunohistochemistry analysis using Rabbit Anti-HSP22 Polyclonal Antibody (SPC-181). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative Solution. Primary Antibody: Rabbit Anti-HSP22 Polyclonal Antibody (SPC-181) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:50 for 1 hour at RT. Localization: Epidermis positive, dermal staining.

WB (Western Blot)
Western blot analysis of Rat Skeletal muscle lysates showing detection of HSP22 protein using Rabbit Anti-HSP22 Polyclonal Antibody (SPC-181). Load: 15 ugprotein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Rabbit Anti-HSP22 Polyclonal Antibody (SPC-181) at 1:1000 for 2 hours at RT. Secondary Antibody: Donkey Anti-Rabbit IgG: HRP for 1 hour at RT.

ICC (Immunocytochemistry)
Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-HSP22 Polyclonal Antibody (SPC-181). Tissue: HaCaT cells. Species: Human. Fixation: Cold 100% methanol at -20C for 10 minutes. Primary Antibody: Rabbit Anti-HSP22 Polyclonal Antibody (SPC-181) at 1:100 for 12 hours at 4 degree C. Secondary Antibody: FITC Goat Anti-Rabbit at 1:50 for 1-2 hours at RT in dark. Localization: Nuclear Staining.

ADDITIONAL INFORMATION

Related Product Information for anti-GNL3 antibody	**Background Info:** Detects ~22kDa. Does not cross-react with Hsp27 or alpha-crystallin. **Scientific 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 (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).
Product Categories/Family for anti-GNL3 antibody	Chaperones; Heat Shock; Trafficking
References	1.Kappe G., et al. (2001) Biochem Biophys Acta 1520: 1- 6. 2.Benndorf R., et al. (2001) J Biol Chem 276: 26753-26761. 3.Sun X., et al. (2004) J Biol Chem 279: 2394-2402. 4.Kim M.V., et al. (2004) Biochem Biophys Res Commun 325: 649-652. 5. Wilhelmus M.M., et al. (2006)Acta Neuropathol (Berl) 111: 139-149.

NCBI AND UNIPROT INFORMATION

NCBI GeneID	26354
UniProt Accession #	Q9UJY2; Q5T9W9; B3KQY5; Q9BVP2
Molecular Weight	50,219 Da
NCBI Official Synonym Full Names	guanine nucleotide binding protein-like 3 (nucleolar)
NCBI Official Symbol	GNL3
NCBI Official Synonym Symbols	NS; E2IG3; NNP47; C77032
NCBI Protein Information	guanine nucleotide-binding protein-like 3
UniProt Protein Name	Equilibrative nucleoside transporter 1
UniProt Gene Name	**SLC29A1**
UniProt Synonym Gene Names	ENT1; Equilibrative NBMPR-sensitive nucleoside transporter
UniProt Entry Name	S29A1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/hsp22-antibody-immunofluorescence-immunoprecipitation-immunohistochemistry-western-blot-elisa/103714