

**Goat Anti-H11 / HSP22 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1517a****Specification**

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**Goat Anti-H11 / HSP22 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O9UJY1</a>
Other Accession	<a href="#">NP_055180</a> , <a href="#">26353</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	21604

**Goat Anti-H11 / HSP22 Antibody - Additional Information****Gene ID** 26353**Other Names**

Heat shock protein beta-8, HspB8, Alpha-crystallin C chain, E2-induced gene 1 protein, Protein kinase H11, Small stress protein-like protein HSP22, HSPB8, CRYAC, E2IG1, HSP22

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-H11 / HSP22 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-H11 / HSP22 Antibody - Protein Information****Name** HSPB8**Synonyms** CRYAC, E2IG1, HSP22**Function**

Displays temperature-dependent chaperone activity.

**Cellular Location**

Cytoplasm. Nucleus Note=Translocates to nuclear foci during heat shock

**Tissue Location**

Predominantly expressed in skeletal muscle and heart.

**Goat Anti-H11 / HSP22 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Goat Anti-H11 / HSP22 Antibody - Images**

AF1517a staining (1 µg/ml) of human muscle lysate (RIPA buffer, 30 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

**Goat Anti-H11 / HSP22 Antibody - Background**

The protein encoded by this gene belongs to the superfamily of small heat-shock proteins containing a conservative alpha-crystallin domain at the C-terminal part of the molecule. The expression of this gene is induced by estrogen in estrogen receptor-positive breast cancer cells, and this protein also functions as a chaperone in association with Bag3, a stimulator of macroautophagy. Thus, this gene appears to be involved in regulation of cell proliferation, apoptosis, and carcinogenesis, and mutations in this gene have been associated with different neuromuscular diseases, including Charcot-Marie-Tooth disease.

**Goat Anti-H11 / HSP22 Antibody - References**

New genetic associations detected in a host response study to hepatitis B vaccine. Davila S, et al. Genes Immun, 2010 Apr. PMID 20237496.  
Identification of the key structural motifs involved in HspB8/HspB6-Bag3 interaction. Fuchs M, et al. Biochem J, 2009 Dec 14. PMID 19845507.

Thermally induced structural changes of intrinsically disordered small heat shock protein Hsp22. Kazakov AS, et al. Biophys Chem, 2009 Dec. PMID 19783089.  
Genetic susceptibility to distinct bladder cancer subphenotypes. Guey LT, et al. Eur Urol, 2010 Feb. PMID 19692168.  
PTEN identified as important risk factor of chronic obstructive pulmonary disease. Hosgood HD 3rd, et al. Respir Med, 2009 Dec. PMID 19625176.