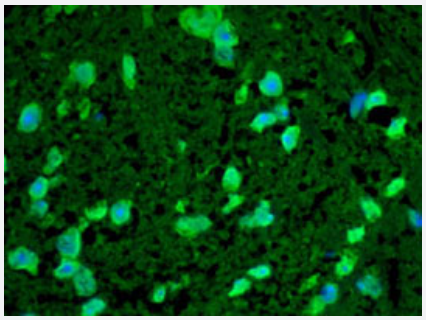
HSPB8 polyclonal antibody

Catalog # PAB15424 Size 100 uL

Applications



Immunofluorescence

Immunofluorescence staining of mouse spinal cord with HSPB8 polyclonal antibody (Cat # PAB15424).

Specification

Product Description	Rabbit polyclonal antibody raised against HSPB8.
Immunogen	Human HSPB8.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	Detects ~22KDa. Does not cross-react with Hsp27 or alpha-crystallin.
Form	Liquid
Purification	Peptide affinity purification
Recommend Usage	Immunofluorescence (1:100) Immunohistochemistry (1:100) Immunoprecipitation Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (50% glycerol, 0.09% sodium azide).

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Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry
- Immunofluorescence

  Immunofluorescence staining of mouse spinal cord with HSPB8 polyclonal antibody (Cat # PAB15424).
- Immunoprecipitation
- Western Blot

Gene Info — HSPB8

Entrez GeneID	26353
Gene Name	HSPB8
Gene Alias	CMT2L, DHMN2, E2IG1, H11, HMN2, HMN2A, HSP22
Gene Description	heat shock 22kDa protein 8
Omim ID	158590 608014 608673
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene belongs to the superfamily of small heat-shock proteins containi ng a conservative alpha-crystallin domain at the C-terminal part of the molecule. The expression o f this gene in induced by estrogen in estrogen receptor-positive breast cancer cells, and this prote in 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. [provided by RefSeq
Other Designations	E2-induced gene 1|heat shock 27kDa protein 8|heat shock protein beta-8|protein kinase H11|sm all stress protein-like protein HSP22

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Publication Reference

- Correlation between the complex of small heat shock proteins (HSPBs) and the progression in patients with hepatocellular carcinoma.

  Rie Matsushima-Nishiwaki, Hidenori Toyoda, Atsuyuki Maeda, Yuji Kaneoka, Takashi Kumada, Osamu Kozawa.

  Archives of Biochemistry and Biophysics 2022 Dec; 732:109461.

  Application: IP, Human, Huh-7 cells, Human hepatocellular carcinoma tumor

- NFκB is a central regulator of protein quality control in response to protein aggregation stresses via autophagy modulation.

  Mathieu Nivon, Loic Fort, Pascale Muller, Emma Richet, Stephanie Simon, Baptiste Guey, Maelenn Fournier, Andre-Patrick Arrigo, Claudio Hetz, Julie D Atkin, Carole Kretz-Remy

  Mol Biol Cell 2016 Jun; 27(11):1712-27.

- The problem of protein kinase activity of small heat shock protein Hsp22 (H11 or HspB8).

  Kim MV, Seit-Nebi AS, Gusev NB.

  Biochemical and Biophysical Research Communications 2004 Dec; 325(3):649.

  Application: WB, Human, Mammalian cells

- Interaction of human HSP22 (HSPB8) with other small heat shock proteins.

  Sun X, Fontaine JM, Rest JS, Shelden EA, Welsh MJ, Benndorf R.

  The Journal of Biological Chemistry 2004 Jan; 279(4):2394.

  Application: WB-Ti, Monkey, Heart

- HSP22, a new member of the small heat shock protein superfamily, interacts with mimic of phosphorylated HSP27 ((3D)HSP27).

  Benndorf R, Sun X, Gilmont RR, Biederman KJ, Molloy MP, Goodmurphy CW, Cheng H, Andrews PC, Welsh MJ.

  The Journal of Biological Chemistry 2001 Jul; 276(29):26753.

  Application: WB-Tr, Monkey, COS-7 cells

Disease

- Genetic Predisposition to Disease
- Head and Neck Neoplasms
- Lung Neoplasms

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- Neoplasm Recurrence
- Neoplasms
- Pulmonary Disease
- Urinary Bladder Neoplasms
- Werner syndrome

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