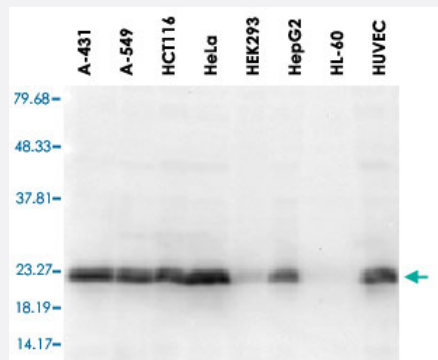


HSPB1 monoclonal antibody, clone 5D12-A12

Catalog # MAB6642 Size 200 ug

Applications



Western Blot (Cell lysate)

Western blot analysis from cell lysates with HSPB1 monoclonal antibody, clone 5D12-A12 (Cat # MAB6642).

Specification

Product Description	Mouse monoclonal antibody raised against HSPB1.
Immunogen	Human HSPB1.
Host	Mouse
Reactivity	Human
Specificity	Detects ~27KDa proteins corresponding to Hsp27 on SDS Page Immunoblots. Has no cross-reactivity to alphaB crystallin.
Form	Liquid
Isotype	IgG2b, kappa
Recommend Usage	Western Blot (0.25-0.5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (50% glycerol, 0.09% sodium azide)
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 should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis from cell lysates with HSPB1 monoclonal antibody, clone 5D12-A12 (Cat # MAB6642).

- Immunohistochemistry

- Immunoprecipitation

- Enzyme-linked Immunoabsorbent Assay

Gene Info — HSPB1

Entrez GeneID	3315
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Gene Name	HSPB1
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Gene Alias	CMT2F, DKFZp586P1322, HMN2B, HS.76067, HSP27, HSP28, Hsp25, SRP27
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Gene Description	heat shock 27kDa protein 1
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Omim ID	602195 606595 608634
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Gene Ontology	Hyperlink
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Gene Summary	The protein encoded by this gene is induced by environmental stress and developmental changes . The encoded protein is involved in stress resistance and actin organization and translocates from the cytoplasm to the nucleus upon stress induction. Defects in this gene are a cause of Charcot-Marie-Tooth disease type 2F (CMT2F) and distal hereditary motor neuropathy (dHMN). [provided by RefSeq]
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Other Designations	OTTHUMP00000024846 estrogen-regulated 24 kDa protein heat shock 27kD protein 1 heat shock protein beta-1 stress-responsive protein 27
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Publication Reference

- [In search of the molecular mechanism by which small stress proteins counteract apoptosis during cellular differentiation.](#)

Arrigo AP.

Journal of Cellular Biochemistry 2005 Feb; 94(2):241.

- [Heat shock proteins in human cancer.](#)

Sarto C, Binz PA, Mocarelli P.

Electrophoresis 2000 Apr; 21(6):1218.

- [Crystal structure of a small heat-shock protein.](#)

Kim KK, Kim R, Kim SH.

Nature 1998 Aug; 394(6693):595.

Pathway

- [MAPK signaling pathway](#)
- [VEGF signaling pathway](#)

Disease

- [Adenocarcinoma](#)
- [Carcinoma](#)
- [Charcot-Marie-Tooth Disease](#)
- [Diabetic Nephropathies](#)
- [Genetic Predisposition to Disease](#)
- [Lung Neoplasms](#)
- [Small Cell Lung Carcinoma](#)