

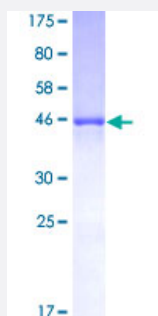
Full-Length

HSPB1 (Human) Recombinant Protein (P01)

Catalog # H00003315-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human HSPB1 full-length ORF (NP_001531.1, 1 a.a. - 205 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MTERRVPFSLLRGPSWDPFRDWYPHSRLFDQAFGLPRLPEEWSQWLGGSSWPGYVRPLPPAA
IESPAVAAPAYSRLSRQLSSGVSEIRHTADRWVRSLDVNHFAPELTVKTKDGVVEITGKHEER
QDEHGYSRCFTRKYTLPPGVDPTQVSSSLSPGTLTVEAPMPKLATQSNEITIPVTFESRAQLGG
PEAAKSDATAK

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

49.2

Interspecies Antigen Sequence

Mouse (83)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — HSPB1

Entrez GeneID	3315
GeneBank Accession#	NM_001540.2
Protein Accession#	NP_001531.1
Gene Name	HSPB1
Gene Alias	CMT2F, DKFZp586P1322, HMN2B, HS.76067, HSP27, HSP28, Hsp25, SRP27
Gene Description	heat shock 27kDa protein 1
Omim ID	602195 606595 608634
Gene Ontology	Hyperlink
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]
Other Designations	OTTHUMP00000024846 estrogen-regulated 24 kDa protein heat shock 27kD protein 1 heat shock protein beta-1 stress-responsive protein 27

Publication Reference

- [Global Impact of Salmonella Pathogenicity Island 2-secreted Effectors on the Host Phosphoproteome.](#)

Imami K, Bhavsar AP, Yu H, Brown NF, Rogers LD, Finlay BB, Foster LJ.

Molecular & Cellular Proteomics 2013 Jun; 12(6):1632.

Application: KA, Human, HeLa cells

- [Identification of autoantigens specific for systemic lupus erythematosus with central nervous system involvement.](#)

Iizuka N, Okamoto K, Matsushita R, Kimura M, Nagai K, Arito M, Kurokawa MS, Masuko K, Suematsu N, Hirohata S, Kato T.

Lupus 2010 May; 19(6):717.

Application: Func, Human, Serum

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](#)