

Recombinant Human HSPB11 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. HSPB11-3443H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HSPB11 MS Standard C13 and N15-labeled recombinant protein (NP_057210) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Component of the IFT complex B required for sonic hedgehog/SHH signaling. May mediate transport of SHH components: required for the export of SMO and PTCH1 receptors out of the cilium and the accumulation of GLI2 at the ciliary tip in response to activation of the SHH pathway, suggesting it is involved in the dynamic transport of SHH signaling molecules within the cilium. Not required for ciliary assembly. Its role in intraflagellar transport is mainly seen in tissues rich in ciliated cells such as kidney and testis. Essential for male fertility, spermiogenesis and sperm flagella formation. Plays a role in the early development of the kidney. May be involved in the regulation of ureteric bud initiation (By similarity).
Molecular Mass	16.3 kDa
AA Sequence	MRKIDLCLSSSEGSEVILATSSDEKHPPENIIDGNPETFWTTTGMFPQEFIICFHKHVRI ERLVIQSYFVQTLKIEKSTSKEPVDFEQWIEKDLVHTEGQLQNEEIVAHDG SATYLRFI IVSAFDHFASVHSVSAEGTVVSNLSSTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

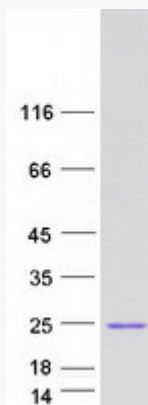
GENE INFORMATION

Gene Name	HSPB11 heat shock protein family B (small) member 11 [Homo sapiens (human)]
Official Symbol	HSPB11
Synonyms	HSPB11; heat shock protein family B (small), member 11; C1orf41, chromosome 1 open reading frame 41; heat shock protein beta-11; HSPCO34; IFT25; intraflagellar transport 25 homolog (Chlamydomonas); PP25; placental protein 25; intraflagellar transport 25 homolog; C1orf41;
Gene ID	51668
mRNA Refseq	NM_016126
Protein Refseq	NP_057210
UniProt ID	Q9Y547

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SDS-PAGE

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