

## Product datasheet for TP501219

### Hscb (NM\_153571) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse HscB iron-sulfur cluster co-chaperone (Hscb), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR201219 protein sequence Red=Cloning site Green=Tags(s)
	MNCNRSFRVDVTKLQHRYQQQLQRLVHPDFFSQSQTEKHFSDKHSTLVNDAYKTLQAPLTRGLYLLKLQG IEIPEGTDYKADSQFLVEIMEINERLADAQSEAAMEEIEATVRAKQKEFTDNINSAFEQGDFEKAKELLT KMRYFSNIEEKIKLSKTPL
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	18.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_705799</u>
Locus ID:	100900
UniProt ID:	<u>Q8K3A0</u> , <u>A0A0R4J0T0</u>
RefSeq Size:	825
Cytogenetics:	5 F



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RefSeq ORF: 480

Synonyms: AI325508; AW049829; Hsc20

**Summary:** Acts as a co-chaperone in iron-sulfur cluster assembly in both mitochondria and the cytoplasm. Required for incorporation of iron-sulfur clusters into SDHB, the iron-sulfur protein subunit of succinate dehydrogenase that is involved in complex II of the mitochondrial electron transport chain. Recruited to SDHB by interaction with SDHAF1 which first binds SDHB and then recruits the iron-sulfur transfer complex formed by HSC20, HSPA9 and ISCU through direct binding to HSC20. Also mediates complex formation between components of the cytosolic iron-sulfur biogenesis pathway and the CIA targeting complex composed of CIAO1, DIPK1B/FAM69B and MMS19 by binding directly to the scaffold protein ISCU and to CIAO1. This facilitates iron-sulfur cluster insertion into a number of cytoplasmic and nuclear proteins including POLD1, ELP3, DPYD and PPAT.[UniProtKB/Swiss-Prot Function]