

Product datasheet for **AR03020PU-S**

HSPA8 / HSC70 (active) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	HSPA8 / HSC70 (active) human recombinant protein, 50 µg
Species:	Human
Expression Host:	E. coli
Concentration:	lot specific
Purity:	>90% pure as determined by SDS-PAGE analysis.
Buffer:	Presentation State: Aff - Purified State: Liquid affinity purified protein Buffer System: Na-Phosphate, pH 7.5 (20 mM), 150 mM NaCl, 10% Glycerol, 200 mM Imidazole.
Preparation:	Liquid affinity purified protein
Applications:	ATPase Assay, WB control, Binding Assays, ELISA reference standard. This protein has ATPase activity at the time of manufacture of 3.2 uM phosphate liberated/hr/ug protein in a 200 uL reaction at 37 C (pH 7.5) in the presence of 20 uL of 1 mM ATP using a Malachite Green assay.
Protein Description:	Recombinant Human Hsc70 Protein with ATPase activity, his-tagged
Storage:	Store the antibody (in aliquots) at -20°C. Can be shipped at 2-8 °C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
RefSeq:	NP_006588
Locus ID:	3312
UniProt ID:	P11142 , V9HW22 , Q53HF2
Cytogenetics:	11q24.1
Synonyms:	HEL-33; HEL-S-72p; HSC54; HSC70; HSC71; HSP71; HSP73; HSPA10; LAP-1; LAP1; NIP71



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Summary:

This gene encodes a member of the heat shock protein 70 family, which contains both heat-inducible and constitutively expressed members. This protein belongs to the latter group, which are also referred to as heat-shock cognate proteins. It functions as a chaperone, and binds to nascent polypeptides to facilitate correct folding. It also functions as an ATPase in the disassembly of clathrin-coated vesicles during transport of membrane components through the cell. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]

Protein Families:

Stem cell - Pluripotency

Protein Pathways:

Antigen processing and presentation, Endocytosis, MAPK signaling pathway, Spliceosome