abcam

Product datasheet

Recombinant human Hsc70 protein ab78431

5 References 2 Images

Description

Product name	Recombinant human Hsc70 protein
Biological activity	ab78431 has ATPase activity at the time of manufacture of 3.2 µM phosphate liberated/hr/µg protein in a 200 µl reaction at 37°C (pH 8) in the presence of 20 µl of 1 mM ATP using a Malachite Green assay.
Purity	> 90 % Affinity purified. ab78431 is affinity purified.
Expression system	Escherichia coli
Accession	P11142
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Predicted molecular weight	73 kDa including tags
Amino acids	1 to 646
Tags	His tag N-Terminus
Additional sequence information	His tag

Specifications

Our **Abpromise guarantee** covers the use of **ab78431** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot ELISA Functional Studies Competitive Binding Assays SDS-PAGE
Form	Liquid

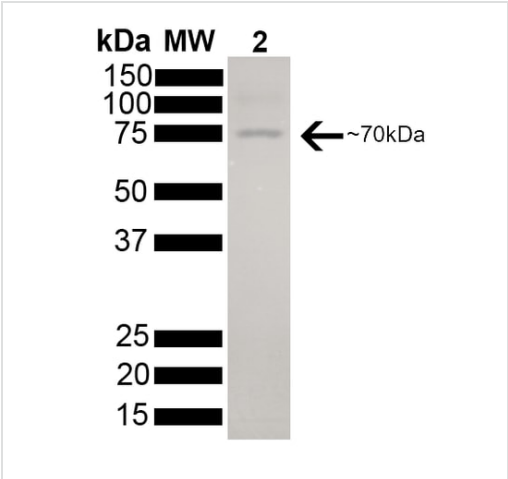
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C. pH: 8 Constituents: 1.753% Sodium chloride, 0.788% Tris HCl This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

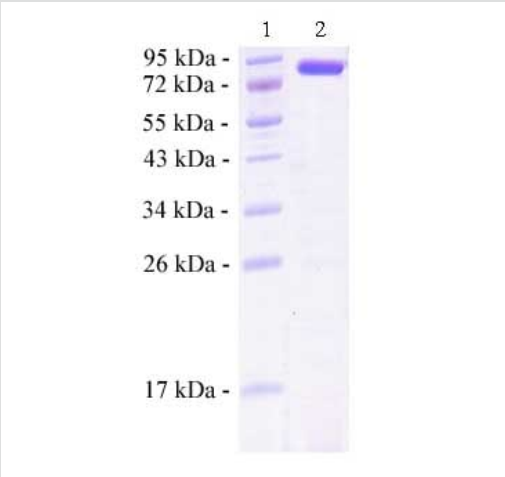
Function	Acts as a repressor of transcriptional activation. Inhibits the transcriptional coactivator activity of CITED1 on Smad-mediated transcription. Chaperone. Isoform 2 may function as an endogenous inhibitory regulator of HSC70 by competing the co-chaperones.
Tissue specificity	Ubiquitous.
Sequence similarities	Belongs to the heat shock protein 70 family.
Domain	The N-terminal 1-386 residues constitute the ATPase domain, while residues 387-646 form the peptide-binding domain.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR. ISGylated.
Cellular localization	Cytoplasm. Melanosome. Localized in cytoplasmic mRNP granules containing untranslated mRNAs. Translocates rapidly from the cytoplasm to the nuclei, and especially to the nucleoli, upon heat shock. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

Images



SDS-PAGE - Recombinant human Hsc70 protein (ab78431)

SDS-PAGE of 73kDa Hsc70 protein.



SDS-PAGE - Recombinant human Hsc70 protein (ab78431)

Lane 1. Molecular weight ladder

Lane 2. Hsc70 protein

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