Datasheet for ABIN185659

anti-Hsc70 antibody (Internal Region)

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Overview

Quantity:	100 µg
Target:	Hsc70 (HSPA8)
Binding Specificity:	Internal Region
Reactivity:	Human, Mouse
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This Hsc70 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF)

Product Details

Purpose:	HSPA8 (Isoform 1)
Immunogen:	Peptide with sequence C-EKLQGKINDEDKQK, from the internal region of the protein sequence according to NP_006588.1.
Sequence:	EKLQGKINDE DKQK
Isotype:	IgG
Specificity:	This antibody is expected to recognise isoform 1 (NP_006588.1) only.
Cross-Reactivity:	Dog, Human, Mouse, Rat
Purification:	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Grade:	Verified

Target Details

Target:	Hsc70 (HSPA8)
Alternative Name:	HSPA8 (HSPA8 Products)
Background:	HSPA8 , heat shock 70 kDa protein 8 , HSC54, HSC70, HSC71, HSP71, HSP73, HSPA10, LAP, MGC131511, MGC29929, NIP71 , LPS-associated protein 1, N-myristoyltransferase inhibitor protein 71, constitutive heat shock protein 70, heat shock 70kD protein 8, heat sh
Gene ID:	3312, 15481, 24468
NCBI Accession:	NP_006588

Application Details

Application Notes:	Immunohistochemistry: Paraffin embedded Human Prostate. Recommended concentration: 5 µg/mL. Western Blot: Approx 75 kDa band observed in lysates of cell lines HepG2 and NIH3T3 (calculated MW of 70.9 kDa according to Human NP_006588.1 and Mouse NP_112442.2). This molecular weight is routinely observed by other sources. Recommended concentration: Peptide ELISA: antibody detection limit dilution 1:4000.
Comment:	**Immunofluorescence:** Strong expression of the protein seen in the cytoplasm of HeLa cells. Recommended concentration: 10µg/ml
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Supplied at 0.5 mg/mL in Tris saline, 0.02 % sodium azide, pH 7.3 with 0.5 % bovine serum albumin.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Minimize freezing and thawing.
Storage:	-20 °C
Storage Comment:	Aliquot and store at -20°C, with minimal freeze/thawing. A working aliquot may be refrigerated

Handling

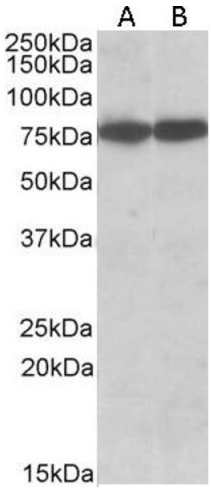
at 4°C for a few weeks and still remain viable.

Publications

Product cited in: Johnson, Kaplitt: "Novel mitochondrial substrates of omi indicate a new regulatory role in neurodegenerative disorders." in: **PLoS ONE**, Vol. 4, Issue 9, pp. e7100, (2009) (PubMed).

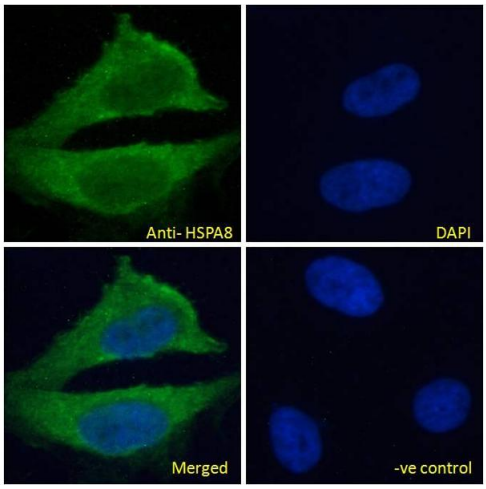
Images

Image 1. ABIN185659 (2µg/ml) staining of A431 cell lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



Western Blotting

Image 2. ABIN185659 (0.03µg/ml) staining of HepG2 (A) and NIH3T3 (B) cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



Immunofluorescence

Image 3. ABIN185659 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (4ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (b