

Datasheet for ABIN165410

anti-HSP70 1A antibody (AA 1-641)

2 Images



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Overview

Quantity:	100 µL
Target:	HSP70 1A (HSPA1A)
Binding Specificity:	AA 1-641
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HSP70 1A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Recombinant human Hsp70 (1-641 aa) purified from E. coli
Clone:	4E7
Isotype:	IgG1 kappa
Purification:	The antibody was purified from mouse ascitic fluids by protein-G affinity chromatography

Target Details

Target:	HSP70 1A (HSPA1A)
Alternative Name:	HSP70/HSPA1A (HSPA1A Products)
Background:	Hsp70 is a human heat shock protein. Hsp70 is an important part of the cell's machinery for

Target Details

protein folding, and help to protect cells from stress. In most species, there are many proteins that belong to the hsp70 family. Some of these are only expressed under stress conditions, while some are present in cells under normal growth conditions and are not heat-inducible. Hsp70 can be found in different cellular compartments (nuclear, cytosolic, mitochondrial, endoplasmic reticulum, etc...), and the chaperone function of hsp70 is required for protection against stress-induced apoptosis.

NCBI Accession: [NP_005336](#)

Pathways: [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#)

Application Details

Application Notes: Recommended dilution 1:1000(W.B), Recommended dilution 1:100(IHC)

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

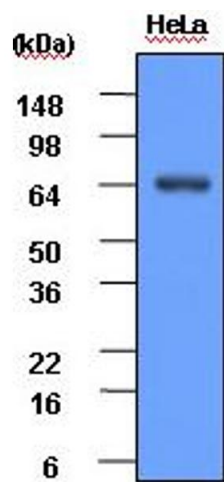
Buffer: In Phosphate-Buffered Saline (pH7.4) with 0.1% Sodium Azide

Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

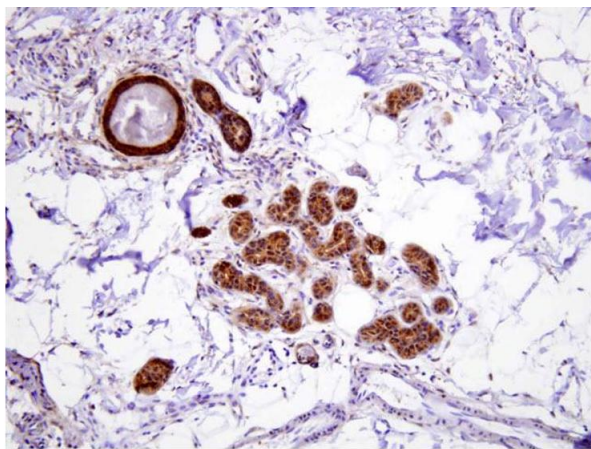
Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.



Western Blotting

Image 1. Western blot analysis: HeLa cell lysate (30ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Hsp70 (1:1000). Proteins were visualized using a goat antimouse secondary antibody conjugated to HRP and an ECL detection system.



Immunohistochemistry

Image 2. Paraffin embedded sections of human eccrine gland were incubated with anti-human Hsp70 (1:100) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB)