

Datasheet for ABIN6142040  
**anti-HSPA2 antibody (AA 400-639)**

## 3 Images

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## Overview

Quantity:	100 µL
Target:	HSPA2
Binding Specificity:	AA 400-639
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HSPA2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

## Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 400-639 of human HSPA2 (NP_068814.2).
Sequence:	TPLSLGIETA GGVMTPLIKR NTTIPTKQTQ TFTTYSNQS SVLVQVYEGE RAMTKDNNLL GKFDLTGIPP APRGVPQIEV TFDIDANGIL NVTAADKSTG KENKITITND KGRLSKDDID RMVQEAERYK SEDEANRDRV AAKNALESYT YNIKQTVEDE KLRGKISEQD KNKILDKCQE VINWLDRNQM AEKDEYEHKQ KELERVCNPI ISKLYQGGPG GSGGGGGSGA SGGPTIEEVD
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

## Target Details

Target:	HSPA2
Alternative Name:	HSPA2 ( <a href="#">HSPA2 Products</a> )
Background:	<p>Molecular chaperone implicated in a wide variety of cellular processes, including protection of the proteome from stress, folding and transport of newly synthesized polypeptides, activation of proteolysis of misfolded proteins and the formation and dissociation of protein complexes. Plays a pivotal role in the protein quality control system, ensuring the correct folding of proteins, the re-folding of misfolded proteins and controlling the targeting of proteins for subsequent degradation. This is achieved through cycles of ATP binding, ATP hydrolysis and ADP release, mediated by co-chaperones. The affinity for polypeptides is regulated by its nucleotide bound state. In the ATP-bound form, it has a low affinity for substrate proteins. However, upon hydrolysis of the ATP to ADP, it undergoes a conformational change that increases its affinity for substrate proteins. It goes through repeated cycles of ATP hydrolysis and nucleotide exchange, which permits cycles of substrate binding and release. Plays a role in spermatogenesis. In association with SHCBP1L may participate in the maintenance of spindle integrity during meiosis in male germ cells (By similarity.,HSPA2,HSP70-2,HSP70-3,Cancer,Tumor biomarkers,Signal Transduction,Endocrine &amp; Metabolism,Mitochondrial metabolism,HSPA2</p>
Molecular Weight:	70 kDa
Gene ID:	3306
UniProt:	<a href="#">P54652</a>

## Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

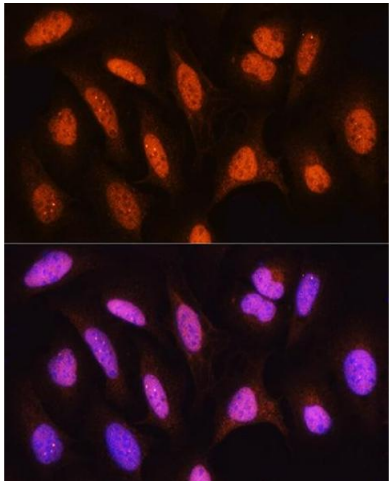
Handling

should be handled by trained staff only.

Storage: -20 °C

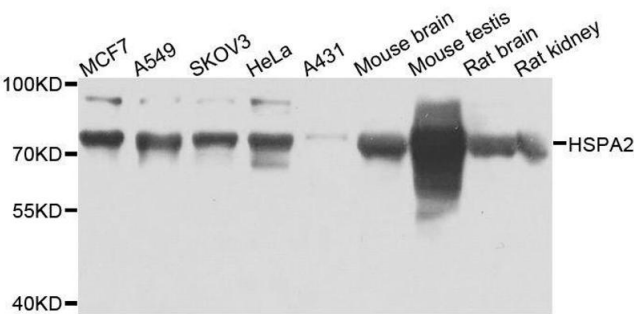
Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Images



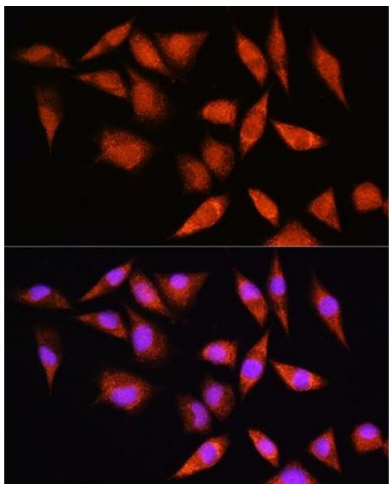
Immunofluorescence

**Image 1.** Immunofluorescence analysis of U2OS cells using HSP antibody (ABIN6128040, ABIN6142040, ABIN6142041 and ABIN6223893) at dilution of 1:100. Blue: DAPI for nuclear staining.



Western Blotting

**Image 2.** Western blot analysis of extracts of various cell lines, using HSPA2 antibody.



Immunofluorescence

**Image 3.** Immunofluorescence analysis of L929 cells using HSP antibody (ABIN6128040, ABIN6142040, ABIN6142041 and ABIN6223893) at dilution of 1:100. Blue: DAPI for nuclear staining.