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HSPA6 Antibody (aa377-628)
Rabbit Polyclonal Antibody
Catalog # ALS16902

Specification

HSPA6 Antibody (aa377-628) - Product Information

Application	**WB, IHC-P, ICC**
Primary Accession	P17066
Other Accession	3310
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**71028**
Dilution	**WB~~1:1000** **IHC-P~~N/A** **ICC~~N/A**

HSPA6 Antibody (aa377-628) - Additional Information

Gene ID 3310

Other Names
HSPA6, Heat shock 70 kd protein b, Heat shock 70 kDa protein 6, Heat shock 70 kDa protein B, Heat shock 70 kd protein 7, HSP70B

Target/Specificity
Human HSPA6

Reconstitution & Storage
0.1 M Tris-glycine, pH 7.0, 10% glycerol, 0.01% Thimerosal. Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Precautions
HSPA6 Antibody (aa377-628) is for research use only and not for use in diagnostic or therapeutic procedures.

HSPA6 Antibody (aa377-628) - Protein Information

Name HSPA6

Synonyms HSP70B'

Function
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 (PubMed:26865365).

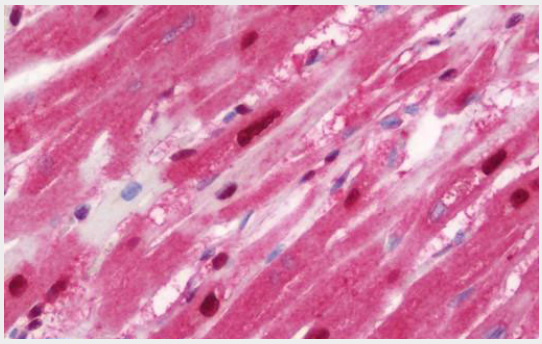
Volume
50 µl

HSPA6 Antibody (aa377-628) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HSPA6 Antibody (aa377-628) - Images



Anti-HSPA6 antibody IHC staining of human heart.

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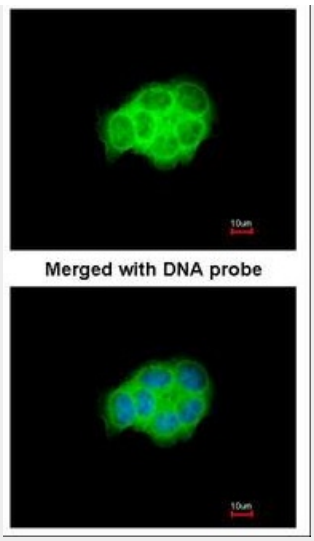
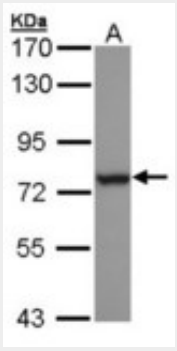


Immunofluorescence of paraformaldehyde-fixed A431 using HSPA6 antibody at 1:200 dilution.



Sample (30 ug of whole cell lysate). A: H1299. 7.5% SDS PAGE. HSPA6 antibody diluted at 1:1000

HSPA6 Antibody (aa377-628) - Background

In cooperation with other chaperones, Hsp70s stabilize preexistent proteins against aggregation and mediate the folding of newly translated polypeptides in the cytosol as well as within organelles. These chaperones participate in all these processes through their ability to recognize nonnative conformations of other proteins. They bind extended peptide segments with a net hydrophobic character exposed by polypeptides during translation and membrane translocation, or following stress-induced damage (By similarity).

HSPA6 Antibody (aa377-628) - References

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Leung T.K.C.,et al.Genomics 12:74-79(1992).
Schiller P.,et al.J. Mol. Biol. 203:97-105(1988).
Jakobsson M.E.,et al.J. Biol. Chem. 288:27752-27763(2013).