

Anti-Hsp105 Antibody
Catalog # ABO10923**Specification****Anti-Hsp105 Antibody - Product Information**

Application	WB, IHC
Primary Accession	Q92598
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Heat shock protein 105 kDa(HSPH1) detection. Tested with WB, IHC-P, IHC-F in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Hsp105 Antibody - Additional Information

Gene ID 10808

Other Names

Heat shock protein 105 kDa, Antigen NY-CO-25, Heat shock 110 kDa protein, HSPH1, HSP105, HSP110, KIAA0201

Calculated MW

96865 MW KDa

Application Details

Immunohistochemistry(Frozen Section), 0.5-1 µg/ml, Rat, Human, Mouse

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse

Subcellular Localization

Cytoplasm .

Tissue Specificity

Highly expressed in testis. Present at lower levels in most brain regions, except cerebellum. Overexpressed in cancer cells. .

Protein Name

Heat shock protein 105 kDa

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human Hsp105(713-733aa

EVMEWMNNVMNAQAKKSLDQD), different from the related mouse sequence by one amino acid, and different from the related rat sequence by two amino acids.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the heat shock protein 70 family.

Anti-Hsp105 Antibody - Protein Information

Name HSPH1

Synonyms HSP105, HSP110, KIAA0201

Function

Acts as a nucleotide-exchange factor (NEF) for chaperone proteins HSPA1A and HSPA1B, promoting the release of ADP from HSPA1A/B thereby triggering client/substrate protein release (PubMed:24318877). Prevents the aggregation of denatured proteins in cells under severe stress, on which the ATP levels decrease markedly. Inhibits HSPA8/HSC70 ATPase and chaperone activities (By similarity).

Cellular Location

Cytoplasm.

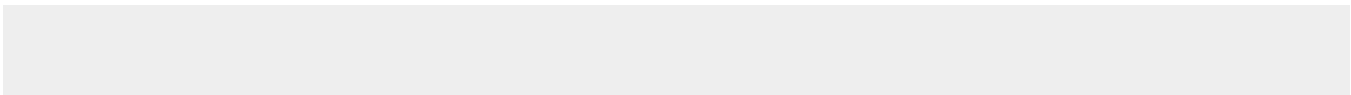
Tissue Location

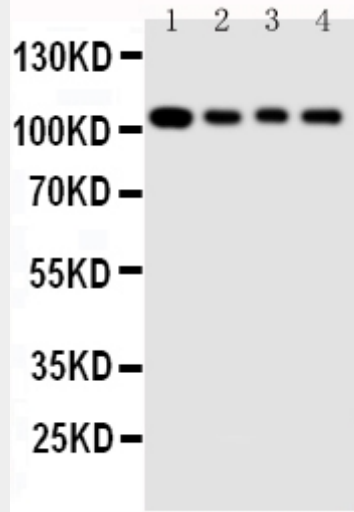
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Anti-Hsp105 Antibody - Protocols

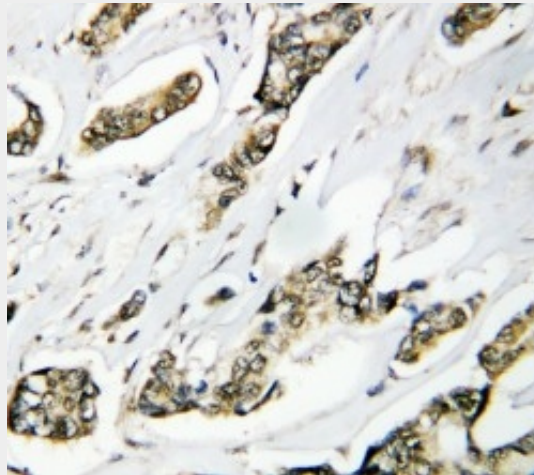
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

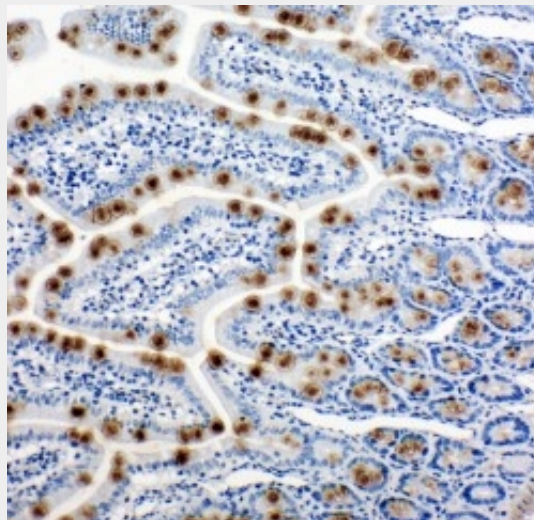
Anti-Hsp105 Antibody - Images



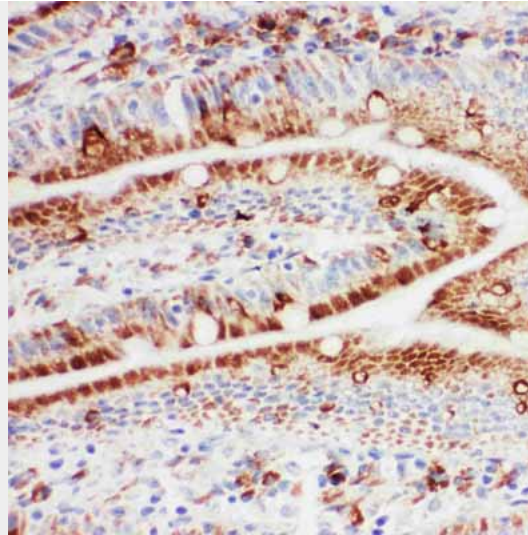
Anti-Hsp105 antibody, ABO10923, Western blotting Lane 1: Rat Ovary Tissue Lysate Lane 2: A549 Cell Lysate Lane 3: U87 Cell Lysate Lane 4: HELA Cell Lysate



Anti-Hsp105 antibody, ABO10923, IHC(P) IHC(P): Human Mammary Cancer Tissue



Anti-Hsp105 antibody, ABO10923, IHC(P) IHC(P): Rat Intestine Tissue



Anti-Hsp105 antibody, ABO10923, IHC(F)IHC(F): Rat Intestine Tissue

Anti-Hsp105 Antibody - Background

HSP105(HEAT-SHOCK 105/110-KD PROTEIN 1), also called HSPH1 or HSP110, is a protein that in humans is encoded by the HSPH1 gene. Immunohistochemical analysis localizes HSP105 mainly in the cytoplasm. Database analysis indicates that both HSP105 isoforms are highly conserved during evolution. By analysis of radiation hybrids and human/rodent hybrid cell lines, the HSPH1 gene is mapped to chromosome 13. Both HSP105-alpha and HSP105-beta are upregulated in HeLa cells exposed to heat shock. HSP105-alpha, but not HSP105-beta, is also upregulated in response to other cell stresses. Following heat shock, HSP105 relocates from a cytoplasmic to perinuclear position. Besides, HSP110 may thus constitute a major determinant for both prognosis and treatment response in colorectal cancer.