10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

Anti-Hsp105 Antibody
Catalog # ABO10923

Specification

Anti-Hsp105 Antibody - Product Information

Application	**WB, IHC-P, IHC-F**
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 r˚Constitution, 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
Highly expressed in testis. Present at lower levels in most brain regions, except cerebellum. Overexpressed in cancer cells.

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 Cytomety
- Cell Culture

Anti-Hsp105 Antibody - Images

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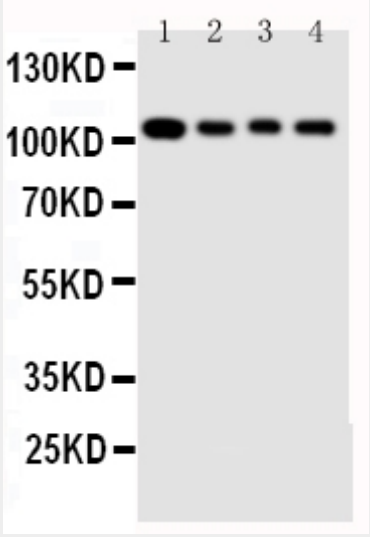
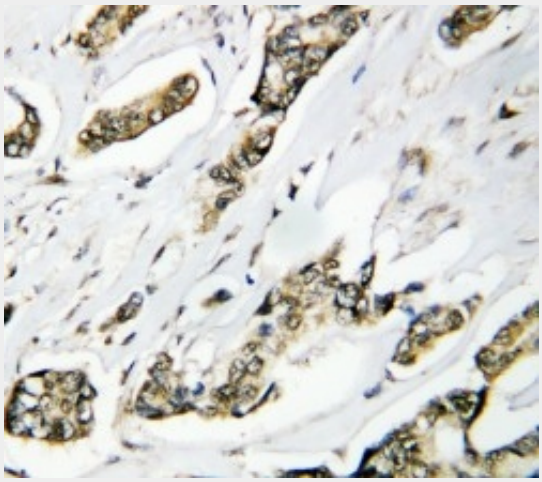
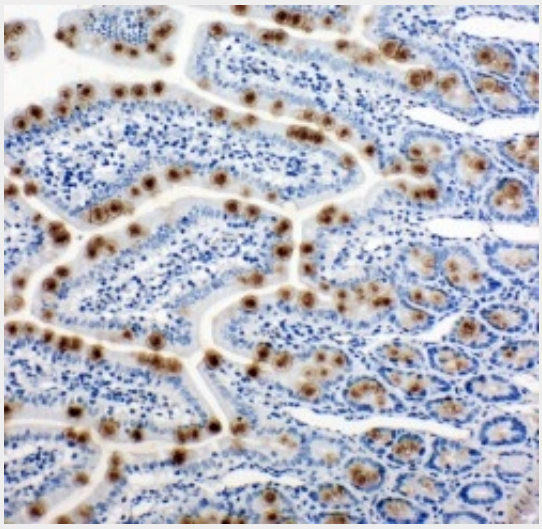


Anti-Hsp105 antibody, ABO10923, Western blottingLane 1: Rat Ovary Tissue Lysate Lane 2: A549 Cell Lysate Lane 3: U87 Cell Lysate Lane 4: HELA Cell Lysate



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



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

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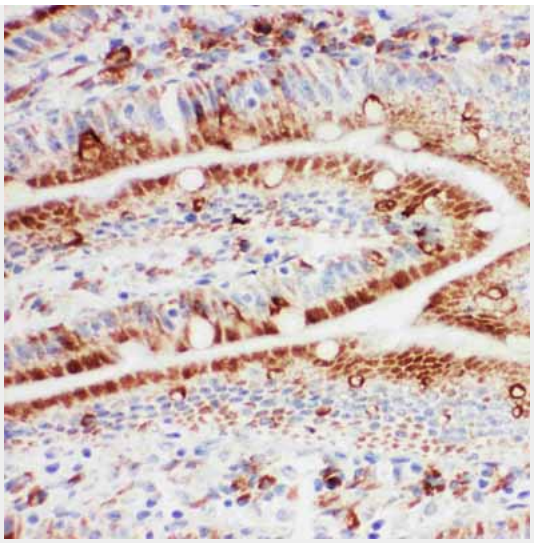

Anti-Hsp105 antibody, ABO10923, IHC(F)IHC(F): Rat Intestine Tissue

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 upregulate in response to other cell stresses. Following heat shock, HSP105 relocalizes from a cytoplasmic to perinuclear position. Besides, HSP110 may thus constitute a major determinant for both prognosis and treatment response in colorectal cancer.