

Anti-HSC70 Interacting Protein HIP Antibody
Catalog # ABO11238**Specification**

Anti-HSC70 Interacting Protein HIP Antibody - Product Information

Application	WB
Primary Accession	P50502
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Hsc70-interacting protein(ST13) detection. Tested with WB in Human.

Reconstitution

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

Anti-HSC70 Interacting Protein HIP Antibody - Additional Information

Gene ID 6767

Other Names

Hsc70-interacting protein, Hip, Aging-associated protein 2, Progesterone receptor-associated p48 protein, Protein FAM10A1, Putative tumor suppressor ST13, Renal carcinoma antigen NY-REN-33, Suppression of tumorigenicity 13 protein, ST13, AAG2, FAM10A1, HIP, SNC6

Calculated MW

41332 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization

Cytoplasm .

Protein Name

Hsc70-interacting protein

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 N-terminus of human ST13(1-19aa MDPKVNELRAFKMCKQD), different from the related rat and mouse sequences 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 FAM10 family.

Anti-HSC70 Interacting Protein HIP Antibody - Protein Information

Name ST13

Synonyms AAG2, FAM10A1, HIP, SNC6

Function

One HIP oligomer binds the ATPase domains of at least two HSC70 molecules dependent on activation of the HSC70 ATPase by HSP40. Stabilizes the ADP state of HSC70 that has a high affinity for substrate protein. Through its own chaperone activity, it may contribute to the interaction of HSC70 with various target proteins (By similarity).

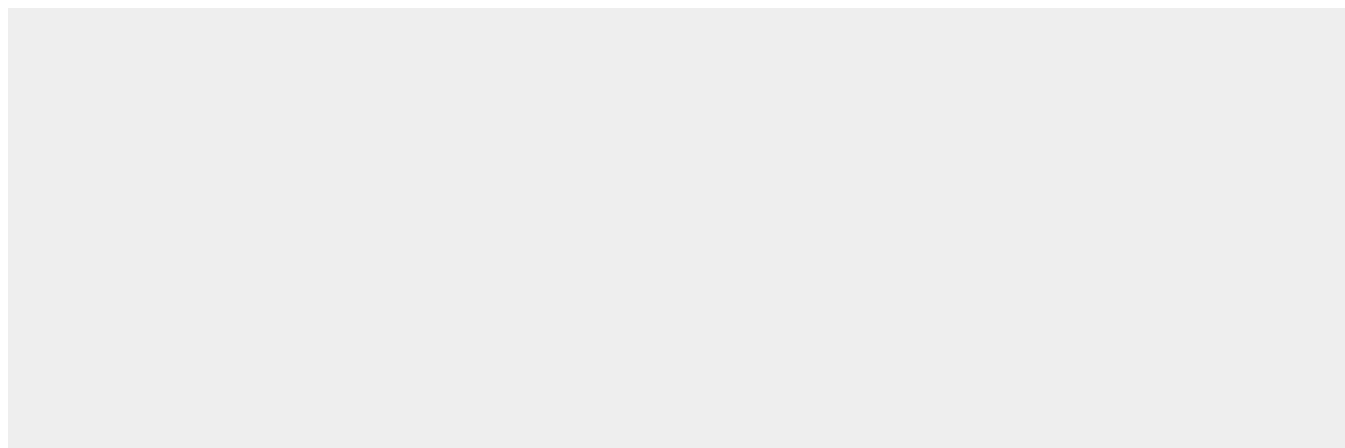
Cellular Location

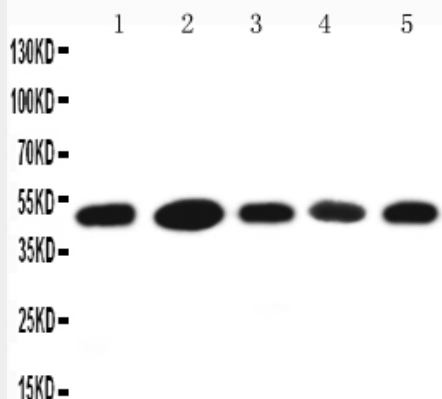
Cytoplasm.

Anti-HSC70 Interacting Protein HIP 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-HSC70 Interacting Protein HIP Antibody - Images



Anti-HSC70 Interacting Protein HIP antibody, ABO11238, Western blotting
Lane 1: A431 Cell Lysate
Lane 2: HELA Cell Lysate
Lane 3: 293T Cell Lysate
Lane 4: JURKAT Cell Lysate
Lane 5: MCF-7 Cell Lysate

Anti-HSC70 Interacting Protein HIP Antibody - Background

ST13(Suppression of Tumorigenicity 13), also known as P48 or HIP, is a protein that in humans is encoded by the ST13 gene. ST13 is an abundant, highly conserved protein that binds the major cytosolic chaperones heat-shock protein 70-kD(HSP70) and HSP90 during an intermediate stage of steroid receptor assembly, but is absent from the mature receptor complex. Zhang et al.(1998) mapped the ST13 gene to chromosome 22q13 by fluorescence in situ hybridization. They noted that colorectal, breast, and ovarian carcinomas frequently show loss of heterozygosity at this site. Using a yeast 2-hybrid assay, Hohfeld et al.(1995) showed that rat Hip bound Hsc70(HSPA8). One Hip oligomer bound the ATPase domains of at least 2 Hsc70 molecules, and binding was dependent on activation of the Hsc70 ATPase by Hsp40(DNAJB1). Hip stabilized the ADP-bound form of Hsc70, which had a high affinity for a test protein substrate. Hohfeld et al.(1995) concluded that HIP contributes to interactions of HSC70 with target proteins through its own chaperone activity.