

# Human HIP/ST13 antibody

Catalog Number: ATGA0309

## PRODUCT INFORMATION

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**Catalog number**

ATGA0309

**Clone No.**

AT5C6

**Product type**

Monoclonal Antibody

**UnitProt No.**

P50502

**NCBI Accession No.**

NP\_003923

**Alternative Names**

Hsc70-interacting protein, ST13, HOP, SNC6, FAM10A1, Hsc70-interacting protein

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human HIP/ST13 (1-369aa) purified from E. coli

**Isotype**

IgG2a kappa

**Purification Note**

By protein-A affinity chromatography

**Application**

ELISA, WB, ICC/IF, FACS

**Usage**

The antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended starting dilution is 1:1000.

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## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

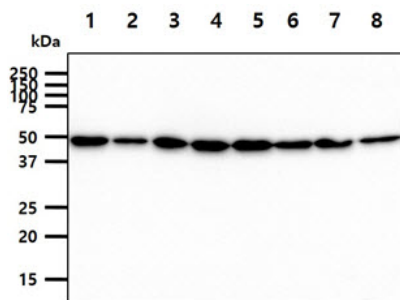
HIP (Hsc70-interacting protein), also known as ST13, is a co-chaperone to the major heat shock proteins, HSP70 and HSP90, and appears in early receptor complexes. Through mutual binding to both HSP70 and HSP90, Hip functions as an adaptor that can integrate HSP70 and HSP90 interactions. Also, Hip has been shown to be involved in the assembly process of glucocorticoid receptor, which requires the assistance of multiple molecular chaperones.

### General References

Nelson GM, et al., (2004) Mol Endocrinol.18(7): 1620-30  
Johnson BD, et al., (1998) J Biol Chem. 273(6):3679-86

## DATA

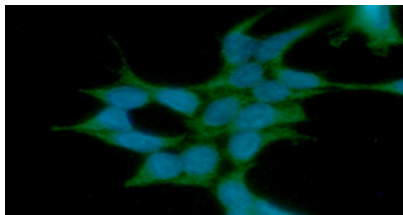
### Western blot analysis (WB)



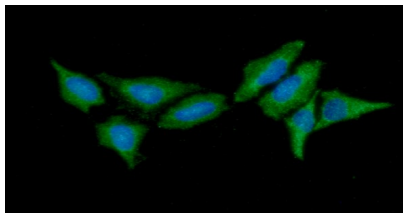
The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ST13 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: 293T cell lysate  
Lane 2.: HepG2 cell lysate  
Lane 3.: SW480 cell lysate  
Lane 4.: Jurkat cell lysate  
Lane 5.: K562 cell lysate  
Lane 6.: LnCap cell lysate  
Lane 7.: HeLa cell lysate  
Lane 8.: PC3 cell lysate

### Immunocytochemistry/Immunofluorescence (ICC/IF)



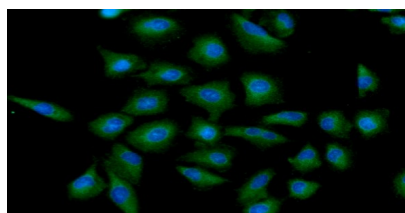
ICC/IF analysis of ST13 in 293T cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human ST13 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



ICC/IF analysis of ST13 in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human ST13 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

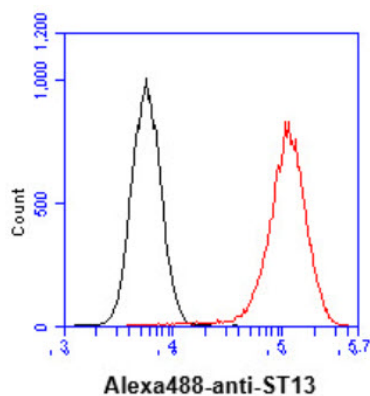
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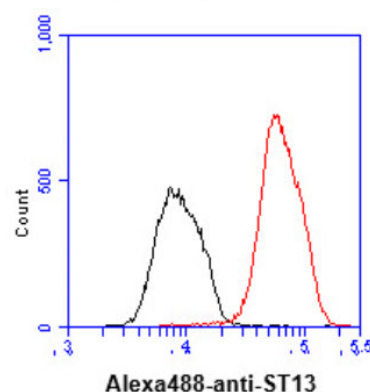


ICC/IF analysis of ST13 in A549 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human ST13 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

## Flow cytometry (FACS)



Flow cytometry analysis of ST13 in 293T cell line, staining at 2-5ug for 1x10<sup>6</sup>cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



Flow cytometry analysis of ST13 in Hep3B cell line, staining at 2-5ug for 1x10<sup>6</sup>cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).