

Human HIP/ST13 antibody

Catalog Number: ATGA0309

PRODUCT INFORMATION

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

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

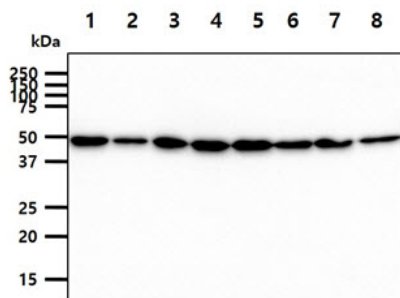
HIP (Hsc70-interacting protein), also known as ST13, is a co-chaperone to the major heat shock proteins, HSP70 and HSP90, and appears in early receptor complexes. Through mutual binding to both HSP70 and HSP90, Hip functions as an adaptor that can integrate HSP70 and HSP90 interactions. Also, Hip has 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

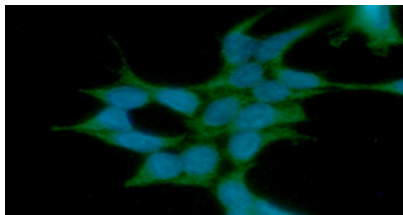
Western blot analysis (WB)



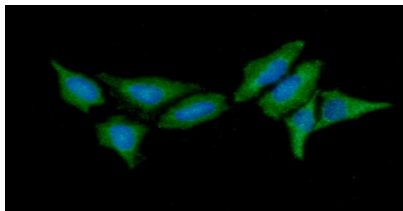
The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ST13 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

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)



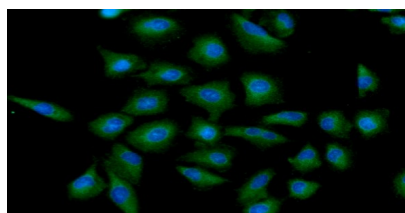
ICC/IF analysis of ST13 in 293T cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human ST13 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



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).

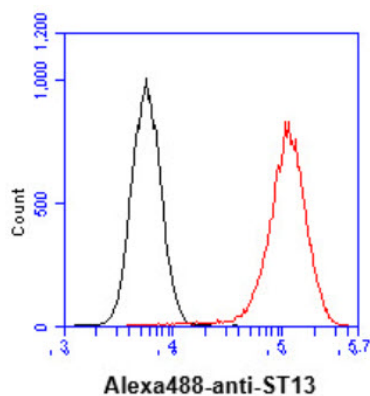
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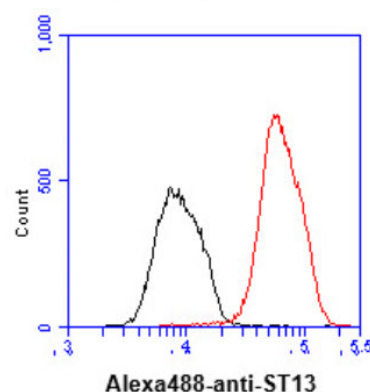


ICC/IF analysis of ST13 in A549 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human ST13 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

Flow cytometry (FACS)



Flow cytometry analysis of ST13 in 293T cell line, staining at 2-5ug for 1x10⁶cells (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 1x10⁶cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).