

Rabbit ST13 Polyclonal Antibody | anti-ST13 antibody

Anti-ST13 Antibody Picoband

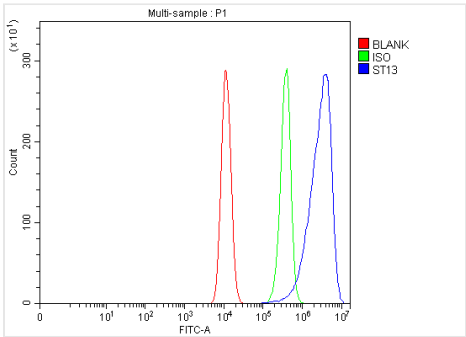
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127318	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

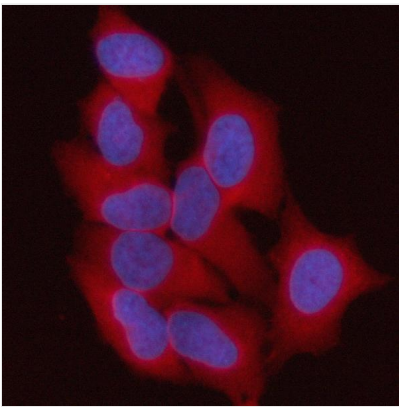
ST13; Polyclonal Antibody; Anti-ST13 Antibody Picoband; N-alpha-acetyltransferase 15; NatA auxiliary subunit; Gastric cancer antigen Ga19; N-terminal acetyltransferase; NMDA receptor-regulated protein 1; Protein tubedown-1; Tbdn100; NAA15; GA19; NARG1; NATH; TBDN100; anti-ST13 antibody

PRODUCT SPECIFICATIONS

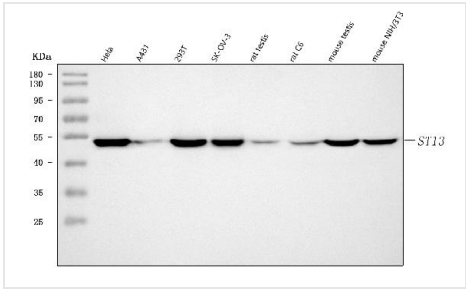
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed at high levels in testis and in ocular endothelial cells. Also found in brain (corpus callosum), heart, colon, bone marrow and at lower levels in most adult tissues, including thyroid, liver, pancreas, mammary and salivary glands, lung, ovary, urogenital system and upper gastrointestinal tract. Overexpressed in gastric cancer, in papillary thyroid carcinomas and in a Burkitt lymphoma cell line (Daudi). Specifically suppressed in abnormal proliferating blood vessels in eyes of patients with proliferative diabetic retinopathy.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-ST13 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human ST13 recombinant protein (Position: D2-A369).
Subcellular Localization	Cytoplasm, Nucleus. Mainly cytoplasmic, nuclear in some cases. Present in the free cytosolic and cytoskeleton-bound polysomes, but not in the membrane-bound polysomes
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins
Protein Function	Auxillary subunit of the N-terminal acetyltransferase A (NatA) complex which displays alpha (N-terminal) acetyltransferase activity. The NAT activity may be important for vascular, hematopoietic and neuronal growth and development. Required to control retinal neovascularization in adult ocular endothelial cells. In complex with XRCC6 and XRCC5 (Ku80), up-regulates transcription from the osteocalcin promoter.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 3. Flow Cytometry analysis of HCT116 cells using anti-ST13 antibody (AAA127318). Overlay histogram showing HCT116 cells stained with AAA127318 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ST13 Antibody (AAA127318, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



IF (Immunofluorescence)
Figure 2. IF analysis of ST13 using anti-ST13 antibody (AAA127318). ST13 was detected in an immunocytochemical section of Hela cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-ST13 Antibody (AAA127318) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)
Figure 1. Western blot analysis of ST13 using anti-ST13 antibody (AAA127318). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human A431 whole cell lysates, Lane 3: human 293T whole cell lysates, Lane 4: human SK-OV-3 whole cell lysates, Lane 5: rat testis tissue lysates, Lane 6: rat C6 whole cell lysates, Lane 7: mouse testis tissue lysates, Lane 8: mouse NIH/3T3 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ST13 antigen affinity purified polyclonal antibody (#AAA127318) at 0.25ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for ST13 at approximately 45-54 kDa. The expected band size for ST13 is at 41 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ST13 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-ST13 antibody	Primary Antibodies; Cancer; Cancer Susceptibility; Cardiovascular; Domain Families; Epigenetics and Nuclear Signaling; Hlh/Leucine Zipper; Hypertrophy; Immunology; Innate Immunity; Oncoproteins; Oncoproteins/Suppressors; Proto-Oncogenes; TLR Signaling; Tr
References	1. Cao, J., Cai, X., Zheng, L., Geng, L., Shi, Z., Pao, C. C., Zheng, S. Characterization of colorectal-cancer-related cDNA clones obtained by subtractive hybridization screening. J. Cancer Res. Clin. Oncol. 123: 447-451, 1997.2. Hohfeld, J., Minami, Y., Hartl, F.-U. Hip, a novel cochaperone involved in the eukaryotic Hsc70/Hsp40 reaction cycle. Cell 83: 589-598, 1995.3. Howarth, J. L., Glover, C. P. J., Uney, J. B. HSP70 interacting protein prevents the accumulation of inclusions in polyglutamine disease. J. Neurochem. 108: 945-951, 2009.

NCBI AND UNIPROT INFORMATION

NCBI GI #	19923193
NCBI GeneID	6767
NCBI Accession #	NP_003923.2
NCBI GenBank Nucleotide #	NM_003932.4
UniProt Accession #	P50502; O14999; Q2TU77
Molecular Weight	41,332 Da
NCBI Official Full Name	hsc70-interacting protein isoform 1
NCBI Official Synonym Full Names	suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein)
NCBI Official Symbol	ST13
NCBI Official Synonym Symbols	HIP; HOP; P48; AAG2; SNC6; HSPABP; FAM10A1; FAM10A4; HSPABP1; PRO0786
NCBI Protein Information	hsc70-interacting protein; Hsp70-interacting protein; aging-associated protein 2; heat shock 70kD protein binding protein; progesterone receptor-associated p48 protein; putative tumor suppressor ST13; renal carcinoma antigen NY-REN-33; suppression of tumo
UniProt Protein Name	Hsc70-interacting protein
UniProt Gene Name	ST13
UniProt Synonym Gene Names	AAG2; FAM10A1; HIP; SNC6; Hip
UniProt Entry Name	F10A1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/st13-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127318>