

Anti-ST5 Antibody
Catalog # ABO11596**Specification**

Anti-ST5 Antibody - Product Information

Application	WB
Primary Accession	P78524
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Suppression of tumorigenicity 5 protein(ST5) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution

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

Anti-ST5 Antibody - Additional Information

Gene ID 6764

Other Names

Suppression of tumorigenicity 5 protein, DENN domain-containing protein 2B, HeLa tumor suppression 1, ST5, DENND2B, HTS1

Calculated MW

126485 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Tissue Specificity

Widely expressed with the exception of peripheral blood lymphocytes. Isoform 1 is expressed in several epithelial and fibroblast (including tumorigenic) but absent in lymphoid cell lines (at protein level). Isoform 3 is expressed in primary cell or weakly tumorigenic but not in tumorigenic cell lines (at protein level). .

Protein Name

Suppression of tumorigenicity 5 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 in the middle region of human ST5(571-586aa KRHSHDDMLLLAQLSL), different from the related mouse and rat sequences by one amino acid.

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

Contains 1 dDENN domain.

Anti-ST5 Antibody - Protein Information

Name DENND2B ([HGNC:11350](#))

Function

[Isoform 1]: May be involved in cytoskeletal organization and tumorigenicity. Seems to be involved in a signaling transduction pathway leading to activation of MAPK1/ERK2. Plays a role in EGFR trafficking from recycling endosomes back to the cell membrane (PubMed: [29030480](http://www.uniprot.org/citations/29030480)).

Cellular Location

[Isoform 1]: Cytoplasm, cell cortex. Cell membrane. Recycling endosome. Note=Colocalizes with RAB13 and ITSN1 at cytoplasmic vesicles that are most likely recycling endosomes Colocalizes with the cortical actin cytoskeleton

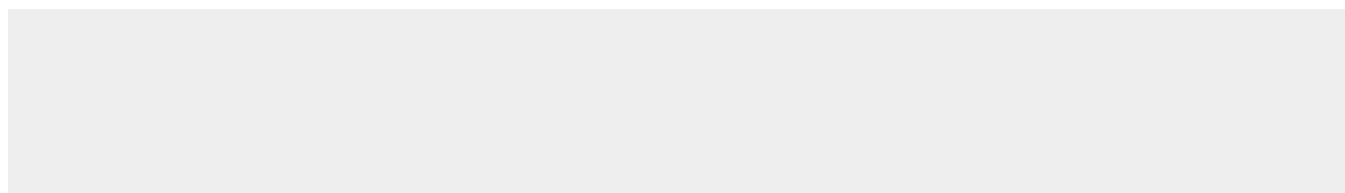
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Anti-ST5 Antibody - Protocols

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-ST5 Antibody - Images



Anti-ST5 antibody, ABO11596, All Western blotting All lanes: Anti-ST5(ABO11596) at 0.5ug/ml
Lane 1: Rat Testis Tissue Lysate at 40ug
Lane 2: A431 Whole Cell Lysate at 40ug
Lane 3: HELA Whole Cell Lysate at 40ug
Lane 4: COLO320 Whole Cell Lysate at 40ug
Lane 5: NIH Whole Cell Lysate at 40ug
Predicted bind size: 126KD
Observed bind size: 126KD

Anti-ST5 Antibody - Background

Suppression of tumorigenicity 5 is a protein that in humans is encoded by the ST5 gene. This gene is mapped to 11p15.4. The protein encoded by this gene contains a C-terminal region that shares similarity with the Rab 3 family of small GTP binding proteins. This protein preferentially binds to the SH3 domain of c-Abl kinase, and acts as a regulator of MAPK1/ERK2 kinase, which may contribute to its ability to reduce the tumorigenic phenotype in cells. Three alternatively spliced transcript variants of this gene encoding distinct isoforms are identified.