

Anti-ST5 Antibody

Catalog # ABO11596

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.

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
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). .
Source	Eukaryota
Protein Name	Suppression of tumorigenicity 5 protein
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
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.

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).
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
Tissue Location	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)

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.

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.