

### ST5 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP6249a

### Specification

## ST5 Antibody (C-term) - Product Information

Application Primary Accession Other Accession Reactivity Predicted Host Clonality Isotype Calculated MW Antigen Region WB, FC,E <u>P78524</u> <u>O924W7</u>, <u>NP\_005409</u> Human Mouse Rabbit Polyclonal Rabbit IgG 126485 1106-1137

## ST5 Antibody (C-term) - Additional Information

### Gene ID 6764

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

#### Target/Specificity

This ST5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1106-1137 amino acids from the C-terminal region of human ST5.

**Dilution** WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

ST5 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## ST5 Antibody (C-term) - Protein Information



## Name DENND2B (HGNC:11350)

**Function** [Isoform 1]: May be involved in cytoskeletal organization and tumorogenicity. 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:<u>29030480</u>).

**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)

## ST5 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- <u>Blocking Peptides</u>
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

# ST5 Antibody (C-term) - Images



ST5 Antibody (C-term K1121) (Cat. #AP6249a) western blot analysis in U251 cell line lysates (35ug/lane).This demonstrates the ST5 antibody detected the ST5 protein (arrow).





ST5 Antibody (C-term) (Cat. #AP6249a) flow cytometric analysis of U251 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## ST5 Antibody (C-term) - Background

ST5 was identified by its ability to suppress the tumorigenicity of Hela cells in nude mice. The protein 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.

## ST5 Antibody (C-term) - References

Majidi, M., et al., J. Biol. Chem. 275(9):6560-6565 (2000). Hubbs, A.E., et al., Oncogene 18(15):2519-2525 (1999). Majidi, M., et al., J. Biol. Chem. 273(26):16608-16614 (1998). Lichy, J.H., et al., Nucleic Acids Res. 24(23):4700-4708 (1996). Lichy, J.H., et al., Cell Growth Differ. 3(8):541-548 (1992).