

ST5 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6249a

Specification

ST5 Antibody (C-term) - Product Information

Application	WB, FC,E
Primary Accession	P78524
Other Accession	O924W7 , NP_005409
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	126485
Antigen Region	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

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 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

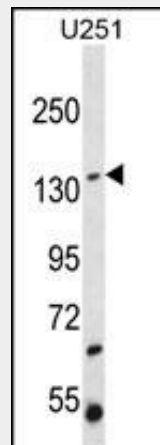
Widely expressed with the exception of peripheral blood lymphocytes. Isoform 1 is expressed in several epithelial and fibroblast (including tumorigenic) but absent in lymphoid cell lines (at protein level). Isoform 3 is expressed in primary cell or weakly tumorigenic but not in tumorigenic cell lines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

ST5 Antibody (C-term) - Protocols

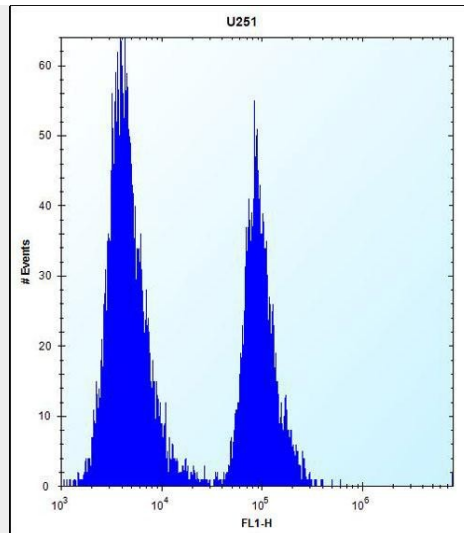
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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).