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# ST5 Antibody (C-term) Blocking Peptide
**Synthetic peptide**
**Catalog # BP6249a**

## Specification

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

| | |
|---|---|
| Primary Accession | P78524 |
| Other Accession | NP_005409 |

### ST5 Antibody (C-term) Blocking Peptide - 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**
The synthetic peptide sequence used to generate the antibody <a href=/product/products/AP6249a>AP6249a</a> was selected from the C-term region of human ST5 . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

### ST5 Antibody (C-term) Blocking Peptide - 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:<a href="http://www.uniprot.org/citations/29030480" target="_blank">29030480</a>).

**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) Blocking Peptide - Protocols

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

- Blocking Peptides

## ST5 Antibody (C-term) Blocking Peptide - Images

## ST5 Antibody (C-term) Blocking Peptide - 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) Blocking Peptide - 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).