ST5 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	ST5, Monoclonal Antibody
Full Product Name	ST5 (Suppression of Tumorigenicity 5 Protein, DENN Domain-containing Protein 2B, HeLa Tumor Suppression 1, DENND2B, HTS1, MGC33090) (MaxLight 650)
Product Gene Name	anti-ST5 antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	1A3
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human ST5.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	126kDa
OMIM	140750
3D Structure	ModBase 3D Structure for P78524
Immunogen	Partial recombinant corresponding to aa1038-1136 from human ST5 (NP_005409) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	VGHYSLFLTQSEKGERAFQREAFRKSVASKSIRRFLEVFMESQMFAGFIQDRELRKCRAKGLFEQRVEQYLEELPDTEQSGMNKFLRGLGNKMKFLHK*
Conjugate	MaxLight650
Product Categories/Family for anti-ST5 antibody	Antibodies; Cancer Markers
Applications Tested/Suitable for anti-ST5 antibody	FLISA
Application Notes for anti-ST5 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-ST5 antibody	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.

Other Notes	Small volumes of anti-ST5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ST5 purchase	MBS6224891 is an antibody targeting ST5. Also known as ST5 (Suppression of Tumorigenicity 5 Protein, DENN Domain-containing Protein 2B, HeLa Tumor Suppression 1, DENND2B, HTS1, MGC33090) (MaxLight 650). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ST5. It may not necessarily be applicable to this product.

NCBI GI #	47132529
NCBI GeneID	6764
NCBI Accession #	NP_005409
UniProt Primary Accession #	P78524
UniProt Related Accession #	P78524
GenBank Nucleotide #	NM_005418
NCBI Official Full Name	suppression of tumorigenicity 5 protein isoform 1
NCBI Official Synonym Full Names	suppression of tumorigenicity 5
NCBI Official Symbol	ST5
NCBI Official Synonym Symbols	HTS1; p126; DENND2B
UniProt Protein Name	Suppression of tumorigenicity 5 protein
UniProt Synonym Protein Names	DENN domain-containing protein 2B; HeLa tumor suppression 1
Protein Family	Suppression of tumorigenicity 5 protein
UniProt Gene Name	ST5
UniProt Synonym Gene Names	DENND2B; HTS1
UniProt Entry Name	ST5_HUMAN
NCBI Protein Information	suppression of tumorigenicity 5 protein
NCBI Summary for ST5	This gene was identified by its ability to suppress the tumorigenicity of Hela cells in nude mice. 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. [provided by RefSeq, Jul 2008]
UniProt Comments for ST5	DENND2B: a guanine nucleotide exchange factor (GEF) that may activate RAB9A and RAB9B. May be involved in cytoskeletal organization and tumorogenicity. Widely expressed with the exception of peripheral blood lymphocytes and lymphoid cell lines. 3 isoforms of the human protein are produced by alternative promoter. Isoform 1 interacts with the SH3 domain of ABL1, is expressed in several epithelial, fibroblast, and tumorigenic cell lines, and seems to be involved in the activation of ERK2. Isoform 3, expressed in primary cells that may be weakly tumorigenic, but not in tumorigenic cell lines, may block ERK2 activation stimulated by ABL1, and may alter cell morphology and cell growth. Protein type: GEFs; GEFs, Rab Chromosomal Location of Human Ortholog: 11p15 Molecular Function: Rab guanyl-nucleotide exchange factor activity

Research Articles on ST5	**1.** Here, we discover that intersectin-s binds DENND2B, a guanine nucleotide exchange factor for the exocytic GTPase Rab13, and this interaction promotes recycling of ligand-free EGFR to the cell surface. Our study thus reveals a novel mechanism controlling the fate of internalized EGFR with important implications for cancer.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/monoclonal-human-antibody/st5/6224891