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ST5 Rabbit pAb

Catalog # AP98410

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P78524
Other Accession	P78524
Reactivity	Human
Predicted	Rat, Mouse, Rabbit, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	126485
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ST5/DENND2B
Epitope Specificity	1051-1137/1137
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 dDENN domain. Contains 1 DENN domain. Contains 1 uDENN domain.
SUBUNIT	Isoform 1 interacts with the SH3 domain of ABL1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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].

Additional Information

Gene ID	6764
Other Names	HTS1; ST5; p126; 2010004M01Rik; 2610305K15Rik; Denn2b; DEN2B_HUMAN; DENND2B; HeLa tumor suppression 1; Suppression of tumorigenicity 5 protein; DEN2B_MOUSE; DENN domain containing 2B; suppression of tumorigenicity 5; DENN/MADD domain containing 2B; HeLa tumor suppression
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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: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)

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