

ST5 Polyclonal Antibody

Catalog No :	YT4432
Reactivity :	Human;Mouse
Applications :	WB;ELISA
Target :	ST5
Gene Name :	ST5
Protein Name :	Suppression of tumorigenicity 5 protein
Human Gene Id :	6764
Human Swiss Prot No :	P78524
Mouse Gene Id :	76954
Mouse Swiss Prot No :	Q924W7
Immunogen :	The antiserum was produced against synthesized peptide derived from human ST5. AA range:411-460
Specificity :	ST5 Polyclonal Antibody detects endogenous levels of ST5 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 126kD**Background :**

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],

Function :

function:May be involved in cytoskeletal organization and tumorigenicity. Isoform 1 seems to be involved in a signaling transduction pathway leading to activation of MAPK1/ERK2. Isoform 3 may block ERK2 activation stimulated by ABL1. Isoform 3 may alter cell morphology and cell growth.,similarity:Contains 1 dDENN domain.,similarity:Contains 1 DENN domain.,similarity:Contains 1 uDENN domain.,subunit:Isoform 1 interacts with the SH3 domain of ABL1.,tissue specificity: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),.

Subcellular Location :

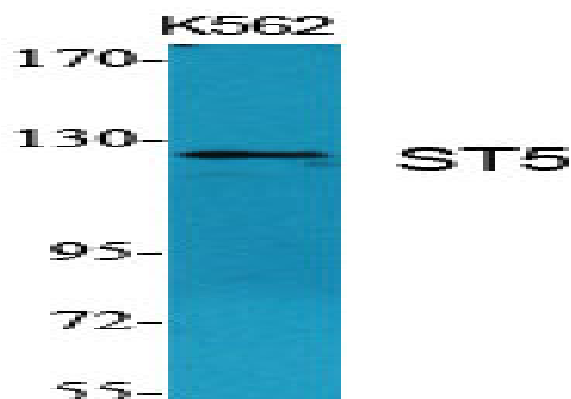
[Isoform 1]: Cytoplasm, cell cortex . Cell membrane . Recycling endosome . Colocalizes with RAB13 and ITSN1 at cytoplasmic vesicles that are most likely recycling endosomes. Colocalizes with the cortical actin cytoskeleton. .

Expression :

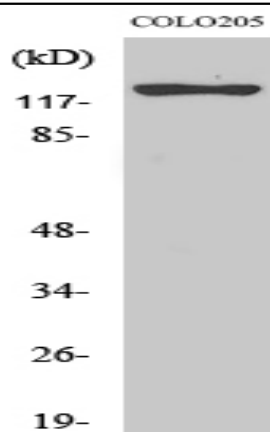
Widely expressed with the exception of peripheral blood lymphocytes. Isoform 1 is expressed in several epithelial and fibroblast (including tumorigenic) but absent in lymphoid cell lines (at protein level). Isoform 3 is expressed in primary cell or weakly tumorigenic but not in tumorigenic cell lines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

Products Images

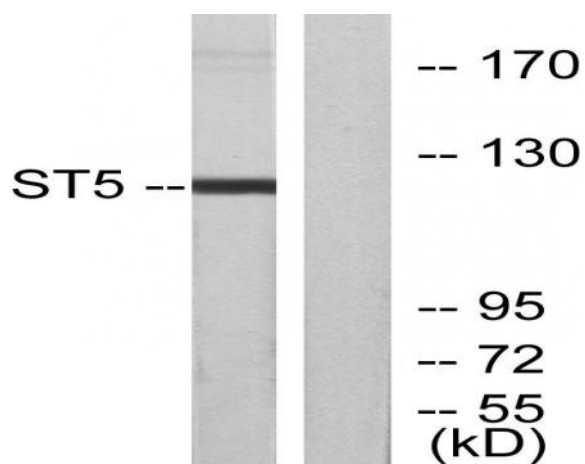
(kD)



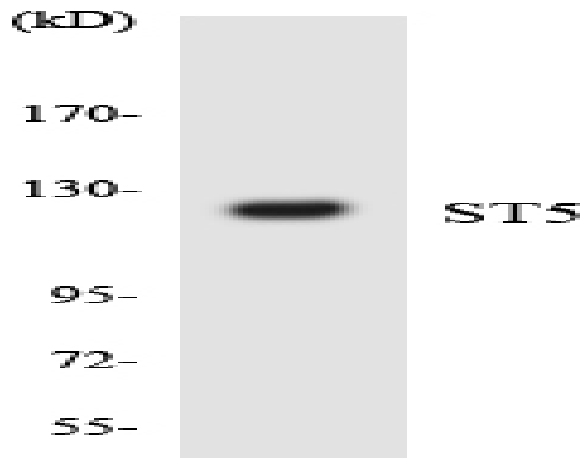
Western Blot analysis of various cells using ST5 Polyclonal Antibody



Western Blot analysis of COLO205 cells using ST5 Polyclonal Antibody



Western blot analysis of lysates from COLO205 cells, using ST5 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from COLO205 cells using ST5 antibody.