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SPT13 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5504c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q96N96
Other Accession	NP_694568.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB27015
Calculated MW	74820
Antigen Region	204-232

Additional Information

Gene ID	221178
Other Names	Spermatogenesis-associated protein 13, APC-stimulated guanine nucleotide exchange factor 2, Asef2, SPATA13
Target/Specificity	This SPT13 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 204-232 amino acids from the Central region of human SPT13.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
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	SPT13 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SPATA13 {ECO:0000303|PubMed:28397838, ECO:0000312|HGNC:HGNC:23222}
Function	Acts as a guanine nucleotide exchange factor (GEF) for RHOA, RAC1 and

	CDC42 GTPases. Regulates cell migration and adhesion assembly and disassembly through a RAC1, PI3K, RHOA and AKT1-dependent mechanism. Increases both RAC1 and CDC42 activity, but decreases the amount of active RHOA. Required for MMP9 up-regulation via the JNK signaling pathway in colorectal tumor cells. Involved in tumor angiogenesis and may play a role in intestinal adenoma formation and tumor progression.
Cellular Location	Cytoplasm. Cell projection, filopodium. Cell projection, lamellipodium. Cell projection, ruffle membrane. Cell projection, podosome {ECO:0000250|UniProtKB:Q5DU57}. Note=Accumulates in the lamellipodium and ruffle membrane in response to hepatocyte growth factor (HGF) treatment. Localized to the core of myotube podosomes (By similarity). {ECO:0000250|UniProtKB:Q5DU57}
Tissue Location	Expressed at high levels in the placenta, spleen and kidney, at moderate levels in lung, small intestine, liver, brain and heart, and at low levels in skeletal muscle. Expression is aberrantly enhanced in most colorectal tumors

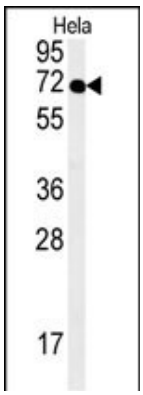
Background

The function of SPT13 remains unknown.

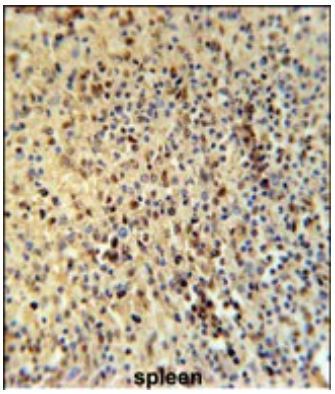
References

Ding, H., et al. Stroke 41(1):177-180(2010)
Bristow, J.M., et al. J. Cell. Sci. 122 (PT 24), 4535-4546 (2009)
Sagara, M., et al. Oncogene 28(10):1357-1365(2009)

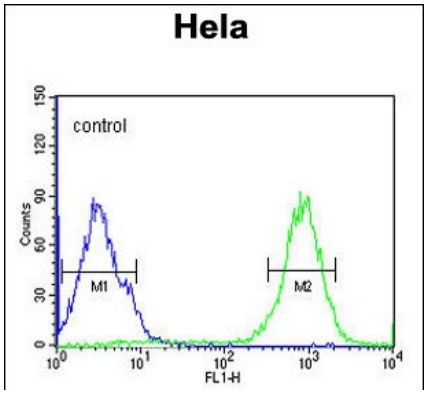
Images



SPT13 Antibody (Center) (Cat.#AP5504c) western blot analysis in Hela cell line lysates (35ug/lane).This demonstrates the SPT13 antibody detected the SPT13 protein (arrow).



SPT13 Antibody (Center) (Cat. #AP5504c) immunohistochemistry analysis in formalin fixed and paraffin embedded human spleen tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the SPT13 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



SPT13 Antibody (Center) (Cat. #AP5504c) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.