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SFN Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5213

Product Information

Application	WB
Primary Accession	P31947
Other Accession	O70456, Q0VC36, NP_006133.1
Reactivity	Mouse, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	27774
Isotype	Rabbit IgG
Antigen Source	HUMAN

Additional Information

Gene ID	2810
Antigen Region	120-149
Other Names	SFN; HME1; 14-3-3 protein sigma; Epithelial cell marker protein 1; Stratifin
Dilution	WB~~1:1000
Target/Specificity	This SFN antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 120-149 amino acids from the Central region of human SFN.
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	SFN Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SFN (HGNC:10773)
Function	Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathways (PubMed:15731107, PubMed:22634725, PubMed:28202711, PubMed:37797010). Binds to a large

	number of partners, usually by recognition of a phosphoserine or phosphothreonine motif (PubMed:15731107, PubMed:22634725, PubMed:28202711, PubMed:37797010). Binding generally results in the modulation of the activity of the binding partner (PubMed:15731107, PubMed:22634725, PubMed:28202711, PubMed:37797010). Promotes cytosolic retention of GBP1 GTPase by binding to phosphorylated GBP1, thereby inhibiting the innate immune response (PubMed:37797010). Also acts as a TP53/p53-regulated inhibitor of G2/M progression (PubMed:9659898). When bound to KRT17, regulates protein synthesis and epithelial cell growth by stimulating Akt/mTOR pathway (By similarity). Acts to maintain desmosome cell junction adhesion in epithelial cells via interacting with and sequestering PKP3 to the cytoplasm, thereby restricting its translocation to existing desmosome structures and therefore maintaining desmosome protein homeostasis (PubMed:24124604). Also acts to facilitate PKP3 exchange at desmosome plaques, thereby maintaining keratinocyte intercellular adhesion (PubMed:29678907). May also regulate MDM2 autoubiquitination and degradation and thereby activate p53/TP53 (PubMed:18382127). Upstream regulator of YAP1 localization in keratinocytes: binds and sequester YAP1 in the cytoplasm, limiting YAP1-dependent transcription and driving Hippo signaling and cell differentiation (By similarity).
Cellular Location	Cytoplasm. Nucleus. Secreted Note=May be secreted by a non-classical secretory pathway
Tissue Location	Present mainly in tissues enriched in stratified squamous keratinizing epithelium.

Background

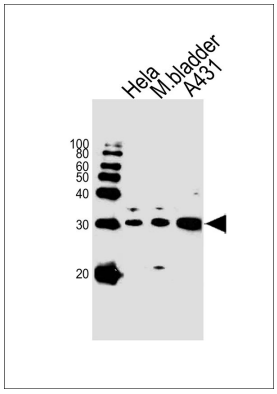
Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathway. Binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif. Binding generally results in the modulation of the activity of the binding partner. When bound to KRT17, regulates protein synthesis and epithelial cell growth by stimulating Akt/mTOR pathway (By similarity). p53-regulated inhibitor of G2/M progression.

References

Ren, H.Z., et al. Dig. Dis. Sci. 55(9):2552-2560(2010)
Liu, Y., et al. Brain Res. 1336, 98-102 (2010) :
Pei, H.P., et al. Zhonghua Wei Chang Wai Ke Za Zhi 13(3):213-215(2010)
Syrjanen, S., et al. Am. J. Clin. Pathol. 133(2):232-240(2010)
Zurita, M., et al. BMC Cancer 10, 217 (2010) :

Images

Western blot analysis of lysates from Hela cell line,mouse bladder tissue lysate,A431 cell line (from left to right), using SFN Antibody (Center)(Cat. #AW5213). AW5213 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.



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