

SFN Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AW5163

Product Information

Application FC, IF, IHC-P, WB

Primary Accession
Other Accession
Reactivity
Predicted
Mouse, Bovine

Host Rabbit
Clonality Polyclonal
Calculated MW 27774
Isotype Rabbit IgG
Antigen Source HUMAN

Additional Information

Gene ID 2810

Antigen Region 222-248

Other Names SFN; HME1; 14-3-3 protein sigma; Epithelial cell marker protein 1; Stratifin

Dilution FC~~1:10~50 IF~~1:10~50 IHC-P~~1:100~500 WB~~1:1000

Target/Specificity This SFN antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 222-248 amino acids from the

C-terminal 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 (C-term) is for research use only and not for use in diagnostic or

therapeutic procedures.

Protein Information

Name SFN

Synonyms HME1 {ECO:0000303 | PubMed:1390337}

Function

Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathways (PubMed: 15731107, PubMed:<u>22634725</u>, PubMed:<u>28202711</u>, PubMed:<u>37797010</u>). 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:<u>22634725</u>, PubMed:<u>28202711</u>, PubMed:<u>37797010</u>). 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).

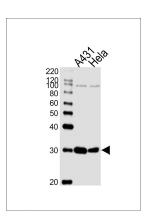
Cellular Location

Cytoplasm. Nucleus {ECO:0000250 | UniProtKB:O70456} Secreted. Note=May be secreted by a non- classical secretory pathway.

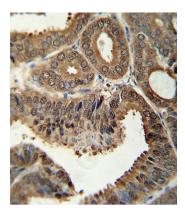
Tissue Location

Present mainly in tissues enriched in stratified squamous keratinizing epithelium.

Images

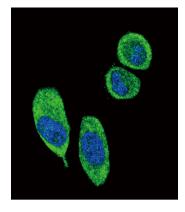


Western blot analysis of lysates from A431,Hela cell line (from left to right), using SFN Antibody (C-term)(Cat. #AW5163). AW5163 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.Lysates at 20ug per lane.

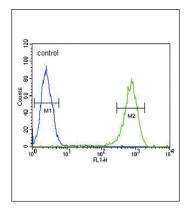


SFN antibody (C-term) (Cat. #AW5163) immunohistochemistry analysis in formalin fixed and paraffin embedded human prostate carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the SFN antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Confocal immunofluorescent analysis of SFN Antibody (C-term)(Cat. #AW5163) with A549 cell followed by Alexa



Fluor搴?488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).



SFN Antibody (C-term) (Cat. #AW5163) 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.

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