

# SFN Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP5993b

## Product Information

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<b>Application</b>	WB, IHC-P, IF, FC, E
<b>Primary Accession</b>	<a href="#">P31947</a>
<b>Other Accession</b>	<a href="#">NP_006133.1</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB27523
<b>Calculated MW</b>	27774
<b>Antigen Region</b>	222-248

## Additional Information

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<b>Gene ID</b>	2810
<b>Other Names</b>	14-3-3 protein sigma, Epithelial cell marker protein 1, Stratifin, SFN, HME1
<b>Target/Specificity</b>	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.
<b>Dilution</b>	WB~~1:1000 IHC-P~~1:100~500 IF~~1:10~50 FC~~1:10~50 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
<b>Storage</b>	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.
<b>Precautions</b>	SFN Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	SFN
<b>Synonyms</b>	HME1 {ECO:0000303   PubMed:1390337}
<b>Function</b>	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](#)).

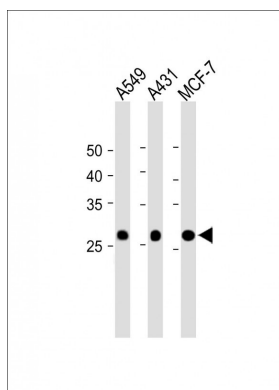
#### Cellular Location

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



All lanes: Anti-SFN Antibody (C-term) at 1:2000 dilution  
 Lane 1: A549 whole cell lysate Lane 2: A431 whole cell lysate Lane 3: MCF-7 whole cell lysate  
 Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution.  
 Observed band size: 27 KDa Blocking/Dilution buffer: 5% NFDM/TBST.

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