

## **14-3-3 $\sigma$ Polyclonal Antibody**

## Specification

## 14-3-3 σ Polyclonal Antibody - Product Information

Application	WB, IHC-P
Primary Accession	<a href="#">P31947</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal

### 14-3-3 σ Polyclonal Antibody - Additional Information

Gene ID 2810

## Other Names

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

## Dilution

WB~~1:1000  
IHC-P~~N/A

## Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

## Storage Conditions

-20°C

## 14-3-3 σ Polyclonal Antibody - 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:<a href="http://www.uniprot.org/citations/15731107" target="\_blank">15731107</a>, PubMed:<a href="http://www.uniprot.org/citations/22634725" target="\_blank">22634725</a>, PubMed:<a href="http://www.uniprot.org/citations/28202711" target="\_blank">28202711</a>, PubMed:<a href="http://www.uniprot.org/citations/37797010" target="\_blank">37797010</a>). Binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif (PubMed:<a href="http://www.uniprot.org/citations/15731107" target="\_blank">15731107</a>, PubMed:<a href="http://www.uniprot.org/citations/22634725" target="\_blank">22634725</a>, PubMed:<a href="http://www.uniprot.org/citations/28202711" target="\_blank">28202711</a>, PubMed:<a href="http://www.uniprot.org/citations/37797010" target="\_blank">37797010</a>). Binding generally results in the modulation of the activity of the binding partner (PubMed:<a href="http://www.uniprot.org/citations/15731107" target="\_blank">15731107</a>, PubMed:<a

href="http://www.uniprot.org/citations/22634725" target="\_blank">22634725, PubMed:<a href="http://www.uniprot.org/citations/28202711" target="\_blank">28202711, PubMed:<a href="http://www.uniprot.org/citations/37797010" target="\_blank">37797010). Promotes cytosolic retention of GBP1 GTPase by binding to phosphorylated GBP1, thereby inhibiting the innate immune response (PubMed:<a href="http://www.uniprot.org/citations/37797010" target="\_blank">37797010). Also acts as a TP53/p53-regulated inhibitor of G2/M progression (PubMed:<a href="http://www.uniprot.org/citations/9659898" target="\_blank">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:<a href="http://www.uniprot.org/citations/24124604" target="\_blank">24124604). Also acts to facilitate PKP3 exchange at desmosome plaques, thereby maintaining keratinocyte intercellular adhesion (PubMed:<a href="http://www.uniprot.org/citations/29678907" target="\_blank">29678907). May also regulate MDM2 autoubiquitination and degradation and thereby activate p53/TP53 (PubMed:<a href="http://www.uniprot.org/citations/18382127" target="\_blank">18382127).

#### Cellular Location

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

#### Tissue Location

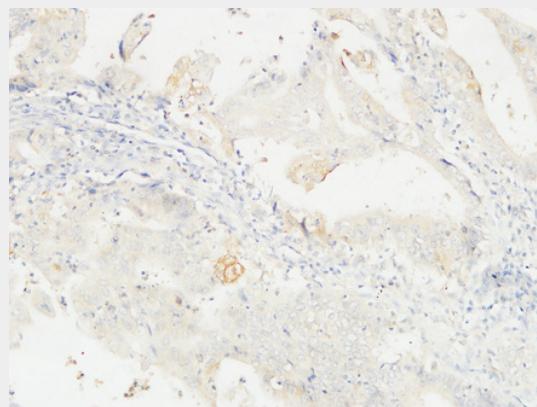
Present mainly in tissues enriched in stratified squamous keratinizing epithelium.

### 14-3-3 σ Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

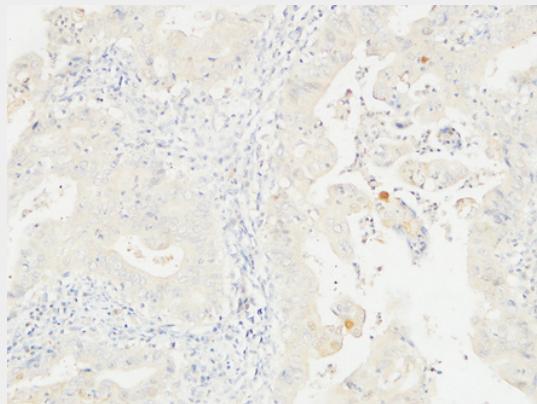
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### 14-3-3 σ Polyclonal Antibody - Images

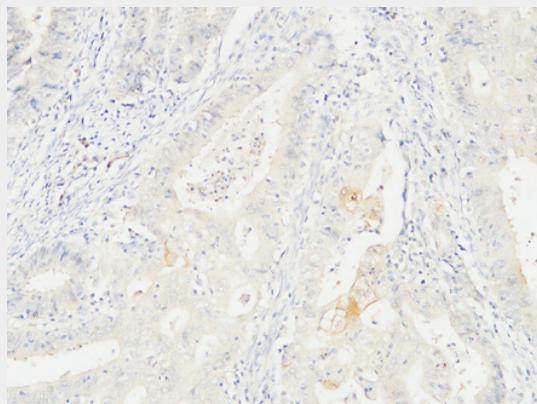


Immunohistochemical analysis of paraffin-embedded Human colon. 1, Antibody was diluted at

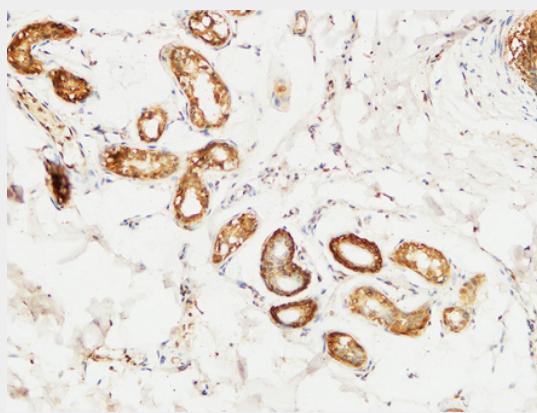
1:100(4°,overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



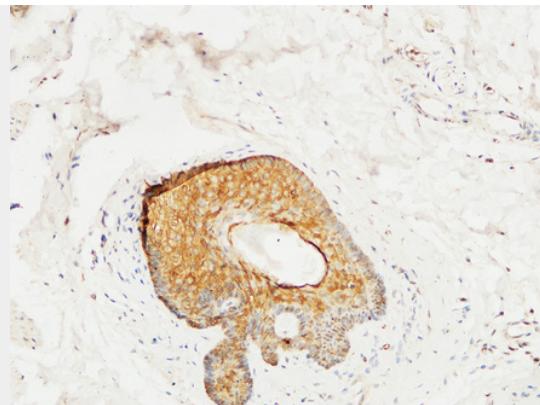
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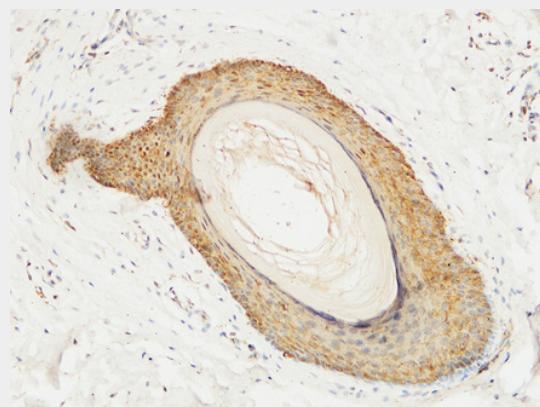
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Immunohistochemical analysis of paraffin-embedded Human skin. 1, Antibody was diluted at 1:200(4°,overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



Immunohistochemical analysis of paraffin-embedded Human skin. 1, Antibody was diluted at 1:200(4°,overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



Immunohistochemical analysis of paraffin-embedded Human skin. 1, Antibody was diluted at 1:200(4°,overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).

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