

14-3-3 σ Polyclonal Antibody

Catalog # AP68195

Product Information

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|--------------------------|------------------------|
| Application | WB, IHC-P, IF, ICC, E |
| Primary Accession | P31947 |
| Reactivity | Human, Mouse |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 27774 |

Additional Information

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|---------------------------|--|
| Gene ID | 2810 |
| Other Names | SFN; HME1; 14-3-3 protein sigma; Epithelial cell marker protein 1; Stratifin |
| Dilution | WB~~1:1000 IHC-P~~IHC-p: 100-300. Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications. IF~~1:50~200 ICC~~N/A E~~N/A |
| Format | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide. |
| Storage Conditions | -20°C |

Protein Information

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|-----------------|--|
| 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: 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.

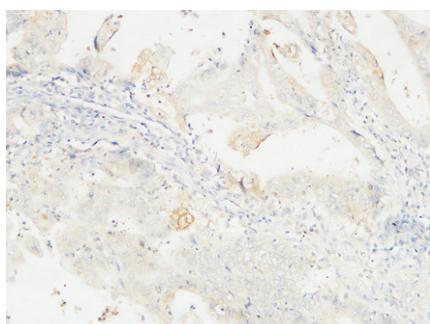
Tissue Location

Present mainly in tissues enriched in stratified squamous keratinizing epithelium.

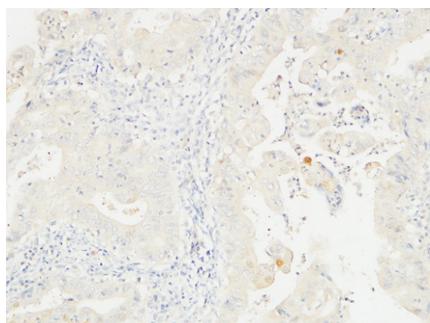
Background

Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathways. 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. May also regulate MDM2 autoubiquitination and degradation and thereby activate p53/TP53.

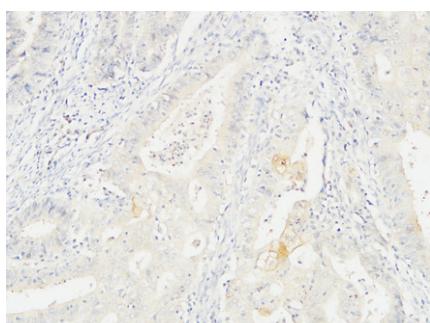
Images



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).

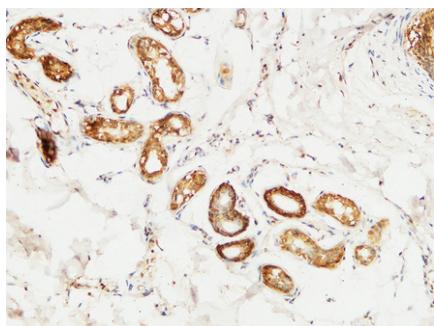


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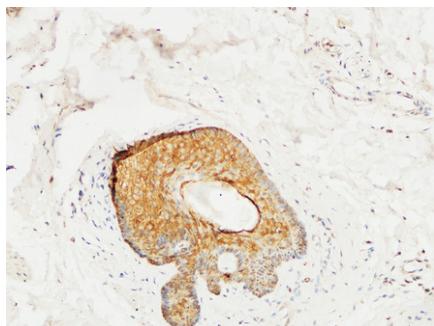


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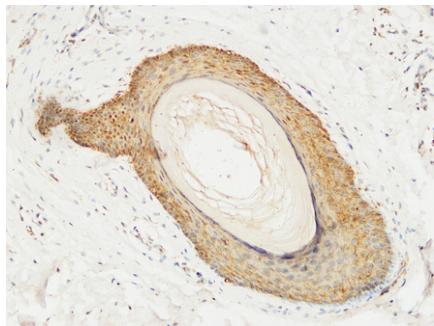
Immunohistochemical analysis of paraffin-embedded Human skin. 1, Antibody was diluted at 1:200(4°,overnight). 2, High-pressure and temperature



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).

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