

SFN / Stratifin / 14-3-3 Sigma Antibody (Internal)
Goat Polyclonal Antibody
Catalog # ALS14641**Specification**

SFN / Stratifin / 14-3-3 Sigma Antibody (Internal) - Product Information

Application	WB, IHC
Primary Accession	P31947
Reactivity	Human, Mouse, Rat, Rabbit, Monkey, Pig, Sheep, Horse, Bovine, Dog
Host	Goat
Clonality	Polyclonal
Calculated MW	28kDa KDa

SFN / Stratifin / 14-3-3 Sigma Antibody (Internal) - Additional Information**Gene ID** 2810**Other Names**

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

Target/Specificity

Human SFN / 14-3-3 Sigma.

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

SFN / Stratifin / 14-3-3 Sigma Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

SFN / Stratifin / 14-3-3 Sigma Antibody (Internal) - 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: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).

[37797010](http://www.uniprot.org/citations/37797010)). Binding generally results in the modulation of the activity of the binding partner (PubMed: [15731107](http://www.uniprot.org/citations/15731107), PubMed: [22634725](http://www.uniprot.org/citations/22634725), PubMed: [28202711](http://www.uniprot.org/citations/28202711), PubMed: [37797010](http://www.uniprot.org/citations/37797010)). Promotes cytosolic retention of GBP1 GTPase by binding to phosphorylated GBP1, thereby inhibiting the innate immune response (PubMed: [37797010](http://www.uniprot.org/citations/37797010)). Also acts as a TP53/p53-regulated inhibitor of G2/M progression (PubMed: [9659898](http://www.uniprot.org/citations/9659898)). When bound to KRT17, regulates protein synthesis and epithelial cell growth by stimulating Akt/mTOR pathway (By similarity). May also regulate MDM2 autoubiquitination and degradation and thereby activate p53/TP53 (PubMed: [18382127](http://www.uniprot.org/citations/18382127)).

Cellular Location

Cytoplasm, cytosol. 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.

SFN / Stratifin / 14-3-3 Sigma Antibody (Internal) - Protocols

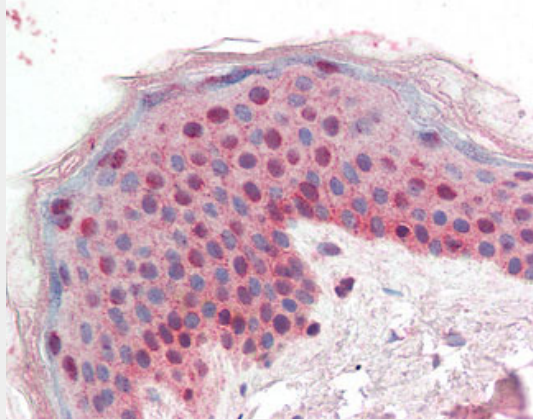
Provided below are standard protocols that you may find useful for product applications.

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

SFN / Stratifin / 14-3-3 Sigma Antibody (Internal) - Images



Antibody (0.1 ug/ml) staining of human skin lysate (35 ug protein in RIPA buffer).



Anti-SFN / 14-3-3 Sigma antibody IHC of human skin.

SFN / Stratifin / 14-3-3 Sigma Antibody (Internal) - 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.

SFN / Stratifin / 14-3-3 Sigma Antibody (Internal) - References

- Prasad G.L.,et al.Cell Growth Differ. 3:507-513(1992).
Leffers H.,et al.J. Mol. Biol. 231:982-998(1993).
Hermeking H.,et al.Mol. Cell 1:3-11(1997).
Halleck A.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Gregory S.G.,et al.Nature 441:315-321(2006).