

**Anti-14-3-3 sigma / Stratifin Antibody (Internal), Biotinylated**  
Catalog # AF4281a**Specification****Anti-14-3-3 sigma / Stratifin Antibody (Internal), Biotinylated - Product Information**

Application	WB
Primary Accession	<a href="#">P31947</a>
Other Accession	<a href="#">2810</a> , <a href="#">NP_006133.1</a> , <a href="#">55948</a> , <a href="#">313017</a>
Reactivity	Human, Mouse
Predicted	Human, Mouse, Rat, Pig, Dog
Calculated MW	27774

**Anti-14-3-3 sigma / Stratifin Antibody (Internal), Biotinylated - Additional Information****Gene ID** 2810**Other Names**

cancer; disease; epithelial marker

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Anti-14-3-3 sigma / Stratifin Antibody (Internal), Biotinylated is for research use only and not for use in diagnostic or therapeutic procedures.

**Anti-14-3-3 sigma / Stratifin Antibody (Internal), Biotinylated - 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](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)). Binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif (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)). 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)).

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>). 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</a>). Also acts as a TP53/p53-regulated inhibitor of G2/M progression (PubMed:<a href="http://www.uniprot.org/citations/9659898" target="\_blank">9659898</a>). 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:<a href="http://www.uniprot.org/citations/18382127" target="\_blank">18382127</a>).

#### Cellular Location

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

#### Tissue Location

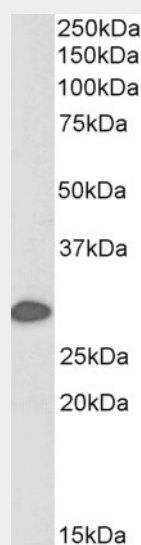
Present mainly in tissues enriched in stratified squamous keratinizing epithelium.

### Anti-14-3-3 sigma / Stratifin Antibody (Internal), Biotinylated - 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](#)

### Anti-14-3-3 sigma / Stratifin Antibody (Internal), Biotinylated - Images



Biotinylated antibody (0.1 µg/ml) staining of Mouse Skin lysate (35 µg protein in RIPA buffer), exactly mirroring its parental non-biotinylated product. Primary incubation was 1 hour. Detected by chemiluminescence, using streptavidin-HRP and using NAP blocker as a substitute for skimmed

milk.