

**Goat Anti-14-3-3 sigma / Stratifin Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1001a****Specification**

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**Goat Anti-14-3-3 sigma / Stratifin Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P31947</a>
Other Accession	<a href="#">NP_006133</a> , <a href="#">2810</a> , <a href="#">55948 (mouse)</a> , <a href="#">313017 (rat)</a>
Reactivity	Human
Predicted	Mouse, Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	27774

**Goat Anti-14-3-3 sigma / Stratifin Antibody - Additional Information****Gene ID** 2810**Other Names**

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

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**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**

Goat Anti-14-3-3 sigma / Stratifin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-14-3-3 sigma / Stratifin Antibody - Protein Information****Name** SFN**Synonyms** HME1**Function**

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.

**Cellular Location**

Cytoplasm. Nucleus. Secreted. Note=May be secreted by a non-classical secretory pathway

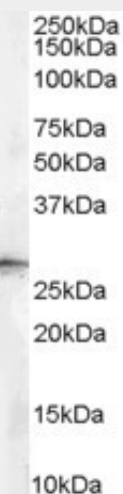
**Tissue Location**

Present mainly in tissues enriched in stratified squamous keratinizing epithelium

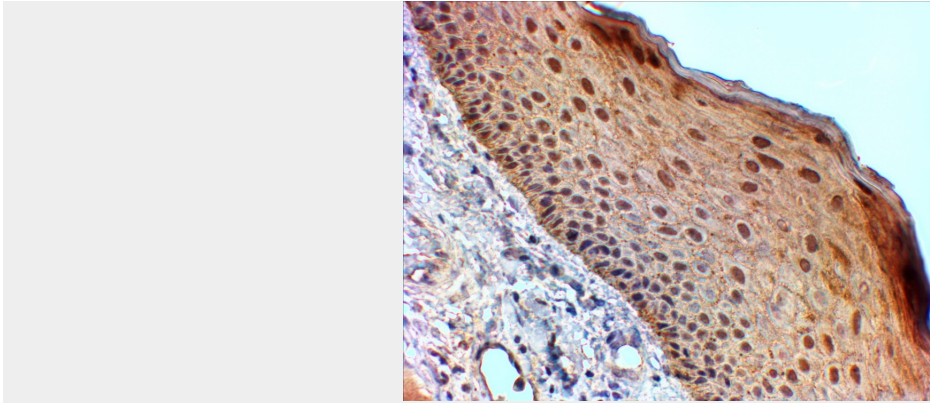
**Goat Anti-14-3-3 sigma / Stratifin Antibody - Protocols**

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](#)

**Goat Anti-14-3-3 sigma / Stratifin Antibody - Images**

AF1001a (0.1 µg/ml) staining of human skin lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF1001a (2µg/ml) staining of paraffin embedded Human Skin. Steamed antigen retrieval with Tris/EDTA buffer pH 9, HRP-staining.

#### **Goat Anti-14-3-3 sigma / Stratifin Antibody - References**

Hypermethylated 14-3-3-sigma and ESR1 gene promoters in serum as candidate biomarkers for the diagnosis and treatment efficacy of breast cancer metastasis. Zurita M, et al. BMC Cancer, 2010 May 20. PMID 20487521.

The expression of seven 14-3-3 isoforms in human meningioma. Liu Y, et al. Brain Res, 2010 Jun 8. PMID 20388496.

[Expression and clinical significance of 14-3-3 sigma and heat shock protein 27 in colorectal cancer] Pei HP, et al. Zhonghua Wei Chang Wai Ke Za Zhi, 2010 Mar. PMID 20336542.

Reduced stratifin expression can serve as an independent prognostic factor for poor survival in patients with esophageal squamous cell carcinoma. Ren HZ, et al. Dig Dis Sci, 2010 Sep. PMID 20108042.

Up-regulation of 14-3-3sigma (Stratifin) is associated with high-grade CIN and high-risk human papillomavirus (HPV) at baseline but does not predict outcomes of HR-HPV infections or incident CIN in the LAMS study. Syrj nen S, et al. Am J Clin Pathol, 2010 Feb. PMID 20093232.