

**Anti-14-3-3 sigma Antibody**  
Rabbit polyclonal antibody to 14-3-3 sigma  
Catalog # AP61193

## Specification

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### Anti-14-3-3 sigma Antibody - Product Information

Application	WB
Primary Accession	<a href="#">P31947</a>
Other Accession	<a href="#">O70456</a>
Reactivity	Human, Mouse, Rat, Pig, Bovine, SARS
Host	Rabbit
Clonality	Polyclonal
Calculated MW	27774

### Anti-14-3-3 sigma Antibody - Additional Information

Gene ID 2810

#### Other Names

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

#### Target/Specificity

Recognizes endogenous levels of 14-3-3 sigma protein.

#### Dilution

WB~~WB (1/500 - 1/1000)

#### Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

#### Storage

Store at -20 °C. Stable for 12 months from date of receipt

### Anti-14-3-3 sigma 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: [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)).

[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)). 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). 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](http://www.uniprot.org/citations/24124604)). Also acts to facilitate PKP3 exchange at desmosome plaques, thereby maintaining keratinocyte intercellular adhesion (PubMed:[29678907](http://www.uniprot.org/citations/29678907)). May also regulate MDM2 autoubiquitination and degradation and thereby activate p53/TP53 (PubMed:[18382127](http://www.uniprot.org/citations/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.

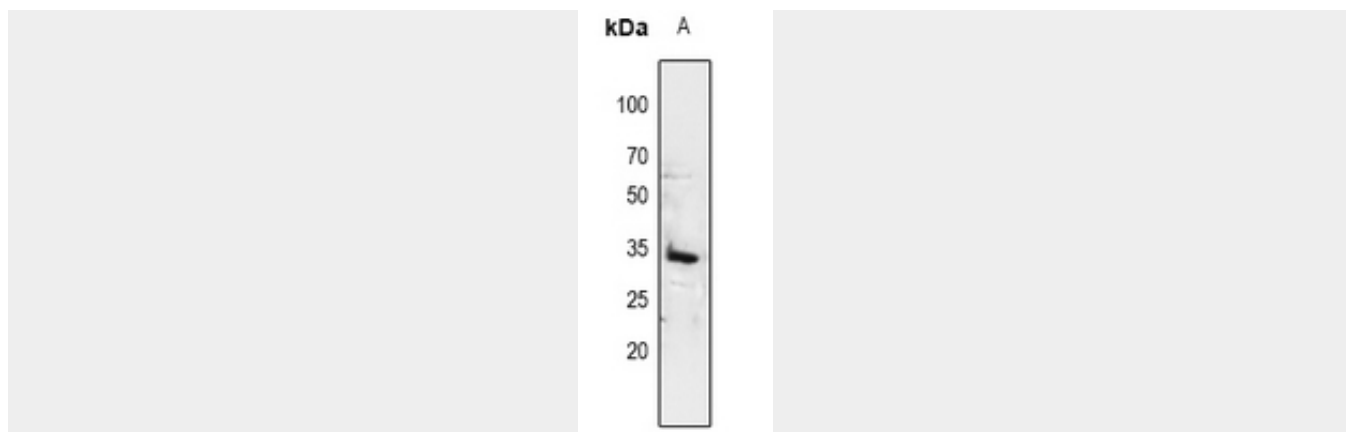
### Anti-14-3-3 sigma Antibody - Protocols

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](#)

### Anti-14-3-3 sigma Antibody - Images





Western blot analysis of 14-3-3 sigma expression in rat kidney (A) whole cell lysates.

#### **Anti-14-3-3 sigma Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human 14-3-3 sigma. The exact sequence is proprietary.