

**SGSM2 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP57645****Specification**

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**SGSM2 Polyclonal Antibody - Product Information**

Application	IHC-P
Primary Accession	<a href="#">O43147</a>
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	113285

**SGSM2 Polyclonal Antibody - Additional Information****Gene ID** 9905**Other Names**

Small G protein signaling modulator 2, RUN and TBC1 domain-containing protein 1, SGSM2, KIAA0397, RUTBC1

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**SGSM2 Polyclonal Antibody - Protein Information****Name** SGSM2**Synonyms** KIAA0397, RUTBC1**Function**

Possesses GTPase activator activity towards RAB32, RAB33B and RAB38 (PubMed:<a href="http://www.uniprot.org/citations/26620560" target="\_blank">26620560</a>, PubMed:<a href="http://www.uniprot.org/citations/21808068" target="\_blank">21808068</a>). Regulates the trafficking of melanogenic enzymes TYR, TYRP1 and DCT/TYRP2 to melanosomes in melanocytes by inactivating RAB32 and RAB38. Inhibits RAB32 and RAB38 activation both directly by promoting their GTPase activity and indirectly by disrupting the RAB9A-HPS4 interaction which is required for RAB32/38 activation (PubMed:<a href="http://www.uniprot.org/citations/26620560" target="\_blank">26620560</a>).

**Cellular Location**

Cytoplasm. Melanosome. Note=Melanosomal localization is mediated by RAB9A.

**Tissue Location**

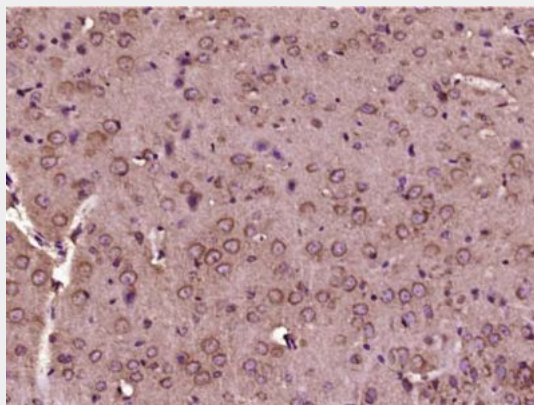
Widely expressed..

### **SGSM2 Polyclonal 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](#)

### **SGSM2 Polyclonal Antibody - Images**



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SGSM2) Polyclonal Antibody, Unconjugated (bs-19742R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.