

SGSM2 Rabbit pAb

SGSM2 Rabbit pAb
Catalog # AP57645

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O43147
Reactivity	Mouse
Predicted	Rat, Pig, Dog, Human, Rabbit, Chicken, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	113285
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SGSM2
Epitope Specificity	251-350/1006
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Additional Information

Gene ID	9905
Other Names	Small G protein signaling modulator 2, RUN and TBC1 domain-containing protein 1, SGSM2, KIAA0397, RUTBC1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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.

Protein Information

Name	SGSM2
Synonyms	KIAA0397, RUTBC1
Function	Possesses GTPase activator activity towards RAB32, RAB33B and RAB38 (PubMed: 21808068 , PubMed: 26620560). 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

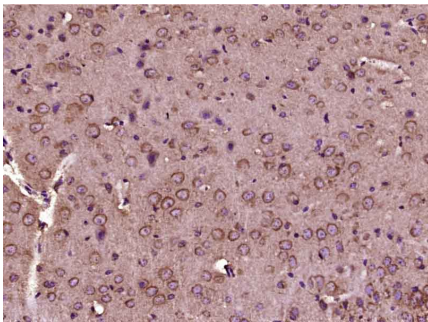
disrupting the RAB9A-HPS4 interaction which is required for RAB32/38 activation (PubMed:[26620560](#)).

Cellular Location	Cytoplasm. Melanosome. Note=Melanosomal localization is mediated by RAB9A.
Tissue Location	Widely expressed..

Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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 (AP57645) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.