

SGTA Rabbit pAb

Catalog # AP99616

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	O43765
Other Accession	O43765
Predicted	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	34063
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SGTA
Epitope Specificity	181-280/313
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the SGT family. Contains 3 TPR repeats.
SUBUNIT	Homooligomerize (By similarity). Interacts with NS1 from parvovirus H-1, with Vpu and Gag from HIV-1. Interacts with SARS-CoV accessory protein 7a. Interacts with DNAJC5 and DNAJC5B.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Co-chaperone that binds directly to HSC70 and HSP70 and regulates their ATPase activity.

Additional Information

Gene ID	6449
Other Names	SGT; SGT1; Vpu; alphaSGT; hSGT; 5330427H01Rik; D10Erttd190e; Stg; SGTA_HUMAN; SGTA; Alpha-SGT; Vpu-binding protein (UBP); Q3TN35_MOUSE; SGTA_MOUSE; small glutamine rich tetratricopeptide repeat co-chaperone alpha; small glutamine-rich tetratricopeptide repeat (TPR)-containing; small glutamine-rich tetratricopeptide repeat (TPR)-containing, alpha; small glutamine rich tetratricopeptide repeat containing alpha; viral protein U-binding protein
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	SGTA
Synonyms	SGT, SGT1
Function	Co-chaperone that binds misfolded and hydrophobic patches- containing client proteins in the cytosol. Mediates their targeting to the endoplasmic reticulum but also regulates their sorting to the proteasome when targeting fails (PubMed:28104892). Functions in tail- anchored/type II transmembrane proteins membrane insertion constituting with ASNA1 and the BAG6 complex a targeting module (PubMed:28104892). Functions upstream of the BAG6 complex and ASNA1, binding more rapidly the transmembrane domain of newly synthesized proteins (PubMed:25535373, PubMed:28104892). It is also involved in the regulation of the endoplasmic reticulum-associated misfolded protein catabolic process via its interaction with BAG6: collaborates with the BAG6 complex to maintain hydrophobic substrates in non-ubiquitinated states (PubMed:23129660, PubMed:25179605). Competes with RNF126 for interaction with BAG6, preventing the ubiquitination of client proteins associated with the BAG6 complex (PubMed:27193484). Binds directly to HSC70 and HSP70 and regulates their ATPase activity (PubMed:18759457).
Cellular Location	Cytoplasm. Nucleus. Note=Co-localizes with HSP90AB1 in the cytoplasm. Increased nuclear accumulation seen during cell apoptosis
Tissue Location	Ubiquitous.

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