10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SGTA Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16027c

Product Information

Application	WB, E
Primary Accession	O43765
Other Accession	Q32LM2, NP_003012.1
Reactivity	Mouse
Predicted	Bovine, Rat, Canine, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34954
Calculated MW	34063
Antigen Region	78-106

Additional Information

Gene ID	6449
Other Names	Small glutamine-rich tetratricopeptide repeat-containing protein alpha, Alpha-SGT, Vpu-binding protein, UBP, SGTA, SGT, SGT1
Target/Specificity	This SGTA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 78-106 amino acids from the Central region of human SGTA.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SGTA Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

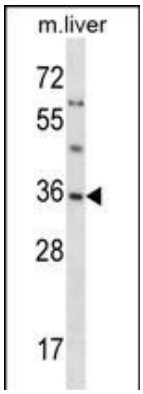
Background

This gene encodes a protein which is capable of interacting with the major nonstructural protein of parvovirus H-1 and 70-kDa heat shock cognate protein; however, its function is not known. Since this transcript is expressed ubiquitously in various tissues, this protein may serve a housekeeping function. [provided by RefSeq].

References

Ewens, K.G., et al. J. Clin. Endocrinol. Metab. 95(5):2306-2315(2010)
Dutta, S., et al. Biochemistry 47(38):10123-10131(2008)
Dutta, S., et al. Acta Crystallogr. Sect. F Struct. Biol. Cryst. Commun. 64 (PT 7), 602-604 (2008) :
Goodarzi, M.O., et al. Hum. Reprod. 23(5):1214-1219(2008)
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Images



SGTA Antibody (Center) (Cat. #AP16027c) western blot analysis in mouse liver tissue lysates (35ug/lane).This demonstrates the SGTA antibody detected the SGTA protein (arrow).

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