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SGTA antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI15112

Specification

SGTA antibody - C-terminal region - Product Information

Application	**WB**
Primary Accession	O43765
Other Accession	NM_003021, NP_003012
Reactivity	**Human, Mouse, Rat, Pig, Horse, Bovine, Guinea Pig, Dog**
Predicted	**Human, Mouse, Rat, Pig, Horse, Bovine, Guinea Pig, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**34kDa KDa**

SGTA antibody - C-terminal region - Additional Information

Gene ID 6449

Alias Symbol	**SGT, alphaSGT, hSGT**

Other Names
Small glutamine-rich tetratricopeptide repeat-containing protein alpha, Alpha-SGT, Vpu-binding protein, UBP, SGTA, SGT, SGT1

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-SGTA antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
SGTA antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

SGTA antibody - C-terminal region - 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

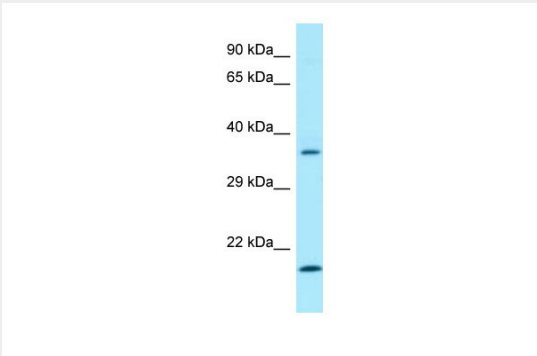
Tissue Location
Ubiquitous.

SGTA antibody - C-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SGTA antibody - C-terminal region - Images



WB Suggested Anti-SGTA Antibody Titration: 1.0 µg/ml
Positive Control: Fetal Heart

SGTA antibody - C-terminal region - References

Kordes E.,et al.Genomics 52:90-94(1998).
Liu F.H.,et al.J. Biol. Chem. 274:34425-34432(1999).
Callahan M.A.,et al.J. Virol. 72:5189-5197(1998).
Tobaben S.,et al.Submitted (APR-2001) to the EMBL/GenBank/DDBJ databases.
Wiemann S.,et al.Genome Res. 11:422-435(2001).