


Store at -20C #3349	SGTA Antibody	
		Orders: 877-616-CELL (2355) orders@cellsignal.com
		Support: 877-678-TECH (8324)
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	34	Rabbit	#O43765	6449

Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

SGTA Antibody detects endogenous levels of total SGTA protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to human SGTA. Antibodies are purified by protein A and peptide affinity chromatography.

Background

SGTA, small glutamine-rich tetratricopeptide repeat-containing protein A, is an ubiquitously expressed co-chaperone that binds directly to HSC70 and HSP70 and regulates their ATPase activity (1,2). SGTA is a 34 kDa protein that is rich in glutamine residues at its C terminus and contains three tandemly repeated TPR motifs (3). The TPR domain of SGTA shows sequence similarity to the TPR domains of Hop, CHIP, and TOM70 (4). The TPR domain of SGTA also interacts with HSP90 and was recently found to be a pro-apoptotic factor (5,6).

Background References

1. Liu, F.H. et al. (1999) *J Biol Chem* 274, 34425-32.
2. Tobaben, S. et al. (2003) *J Biol Chem* 278, 38376-83.
3. Cziepluch, C. et al. (1998) *J Virol* 72, 4149-56.
4. Scheufler, C. et al. (2000) *Cell* 101, 199-210.
5. Liou, S.T. and Wang, C. (2005) *Arch Biochem Biophys* 435, 253-63.
6. Yin, H. et al. (2006) *Biochem Biophys Res Commun* 343, 1153-8.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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