

# Product datasheet

info@arigobio.com

# ARG23898 anti-Phosphoserine / threonine antibody

Package: 50 μl Store at: -20°C

# Summary

Product Description Rabbit Polyclonal antibody recognizes Phosphoserine / threonine

Tested Reactivity Other

Tested Application ELISA, ICC/IF, IP, WB

Specificity This antibody detects many serine or threonine phosphorylated proteins by WB, ICC and ELISA.

Host Rabbit

**Clonality** Polyclonal

Isotype IgG

Target Name Serine / Threonine

Species Human

Immunogen A panel of phosphoserine and phosphothreonine-containing peptide immunogens designed from

human protein sequences. All peptide sequences used are highly conserved in many species.

Conjugation Un-conjugated

### **Application Instructions**

Application table	Application	Dilution
	ELISA	1:2000
	ICC/IF	1:50
	IP	1:100
	WB	1:1000
Application Note	WB: Antibody is suggested to be diluted in 5% skimmed milk/Tris buffer with 0.04% Tween20 and incubated for 1 hour at room temperature.  * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

#### **Properties**

Purification	Affinity purification with phospho-specific peptide and the non-phospho specific antibodies were
	removed by chromatography using non-phosphopentide

Buffer PBS, 0.05% Sodium azide, 50% Glycerol and 1 mg/ml BSA.

Preservative 0.05% Sodium azide

Stabilizer 50% Glycerol and 1 mg/ml BSA

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

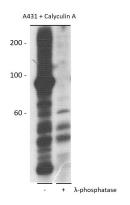
and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

#### Bioinformation

#### Background

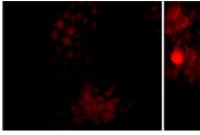
Phosphorylation of specific serine or threonine residues is an important post-translational modification for regulating the activity of most proteins. Stimulation of a variety of cell signaling pathways activates the receptor and non-receptor ser/thr kinases that mediate these protein modifications. Antibodies that can detect phosphoserine or phosphothreonine residues are excellent tools for characterizing changes in the post-translational state of a broad range of phosphorylated proteins. Immunoprecipitation of proteins of interest followed by detection of phosphoserine or phosphothreonine using anti-phosphoserine antibody is commonly used to correlate changes in phosphorylation state with alterations in protein activity.

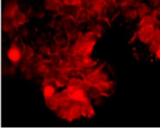
#### **Images**



#### ARG23898 anti-Phosphoserine / threonine antibody WB image

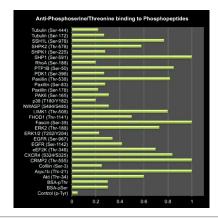
Western blot: A431 cells treated with calyculin A (100 nM) for 30 min (lane 1) then treated with lambda phosphatase (lane 2). The blot was stained with ARG23898 anti-Phosphoserine / threonine antibody at 1:1000 dilution.





# ARG23898 anti-Phosphoserine / threonine antibody ICC/IF image $\,$

Immunofluorescence: Control (left) and calyculin A-treated (right) A431 cells were stained with ARG23898 anti-Phosphoserine / threonine antibody.



# ARG23898 anti-Phosphoserine / threonine antibody binding to phosphopeptides

Bar graph showing ARG23898 anti-Phosphoserine / threonine antibody binding to a variety of phosphoserine and phosphothreonine peptides, but not control peptide containing unphosphorylated serine or phosphotyrosine.