

## Anti-TAO2 (Ser181) Antibody

Our Anti-TAO2 (Ser181) rabbit polyclonal phosphospecific primary antibody from PhosphoSolutions is p  
Catalog # AN1573

### Specification

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#### Anti-TAO2 (Ser181) Antibody - Product Information

Primary Accession	<a href="#">O9UL54</a>
Reactivity	<b>Bovine</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>IgG</b>
Calculated MW	<b>138251</b>

#### Anti-TAO2 (Ser181) Antibody - Additional Information

Gene ID **9344**

##### Other Names

1110033K02Rik antibody, B230344N16 antibody, hKFC C antibody, hKFC-C antibody, KIAA0881 antibody, Kinase from chicken homolog C antibody, MAP3K17 antibody, mKIAA0881 antibody, Prostate derived STE20 like kinase 1 antibody, Prostate derived STE20 like kinase PSK antibody, Prostate derived sterile 20 like kinase 1 antibody, Prostate-derived STE20-like kinase 1 antibody, PSK 1 antibody, PSK antibody, PSK-1 antibody, PSK1 antibody, PSK1 beta antibody, Serine/threonine protein kinase TAO2 antibody, Serine/threonine-protein kinase TAO2 antibody, TAO 1 antibody, TAO 2 antibody, TAO kinase 2 antibody, TAO1 antibody, TAO2 antibody, TAOK2 antibody, TAOK 2 antibody, Taok2 antibody, TAOK2\_HUMAN antibody, Thousand and one amino acid protein 2 antibody, Thousand and one amino acid protein kinase antibody, UNQ2971/PRO7431 antibody

##### Target/Specificity

In vitro, TAO (thousand and one amino acid) protein kinase 2 (TAO2) activates MAP/ERK kinases (MEKs) 3, 4, and 6 toward their substrates p38 MAP kinase JNK/SAPK (Chen et al., 1999; Chen and Cobb, 2001). This and more recent work has led to the proposal that the TAO protein kinases play an essential role in signaling from physiological agonists to the stress-responsive p38 MAPKs (Chen et al., 2003). Autophosphorylation of TAO may play a role in the mechanism of TAO activation. The MEK binding domain of TAO is autophosphorylated on both serine and threonine residues and Ser-181 is located within this domain.

##### Format

Antigen Affinity Purified from Pooled Serum

##### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

##### Precautions

Anti-TAO2 (Ser181) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

##### Shipping

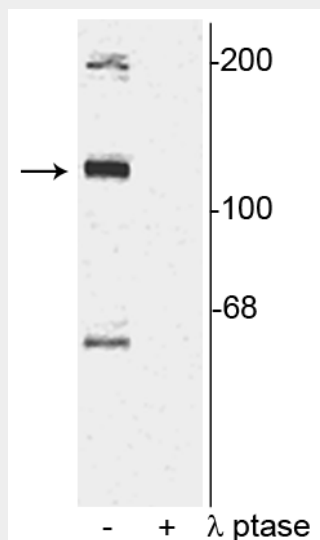
Blue Ice

### Anti-TAO2 (Ser181) Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-TAO2 (Ser181) Antibody - Images



Western blot of rat cortical lysate showing specific immunolabeling of the ~120 kDa TAO2 phosphorylated at Ser181 in the first lane (-). Phosphospecificity is shown in the second lane (+) where the immunolabeling is completely eliminated by blot treatment with lambda phosphatase ( $\lambda$ -Ptase, 1200 units for 30 minutes).

### Anti-TAO2 (Ser181) Antibody - Background

In vitro, TAO (thousand and one amino acid) protein kinase 2 (TAO2) activates MAP/ERK kinases (MEKs) 3, 4, and 6 toward their substrates p38 MAP kinase JNK/SAPK (Chen et al., 1999; Chen and Cobb, 2001). This and more recent work has led to the proposal that the TAO protein kinases play an essential role in signaling from physiological agonists to the stress-responsive p38 MAPKs (Chen et al., 2003). Autophosphorylation of TAO may play a role in the mechanism of TAO activation. The MEK binding domain of TAO is autophosphorylated on both serine and threonine residues and Ser-181 is located within this domain.