

# Product Datasheet

## TAO2 [p Ser181] Antibody - Azide Free NB300-233

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

### Publications: 5

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**NB300-233**

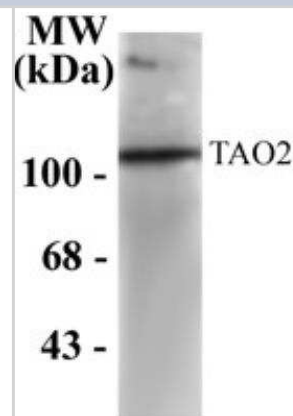
TAO2 [p Ser181] Antibody - Azide Free

Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	10mM HEPES (pH 7.5), 0.15M NaCl, 0.1 mg/ml BSA and 50% Glycerol
Target Molecular Weight	120 kDa
Product Description	
Description	Novus Biologicals Rabbit TAO2 [p Ser181] Antibody - Azide Free (NB300-233) is a polyclonal antibody validated for use in WB. Anti-TAO2 Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	9344
Gene Symbol	TAOK2
Species	Human, Mouse, Rat
Reactivity Notes	Reactivity assumed based on 100% sequence homology: Finch.
Specificity/Sensitivity	Specific for endogenous levels of the ~120 kDa TAO2 phosphorylated at Ser181. Immunolabeling is completely eliminated by treatment with lambda-phosphatase.
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser181 conjugated to KLH. Accession # Q9UL54
Product Application Details	
Applications	Western Blot
Recommended Dilutions	Western Blot 1:1000
Application Notes	Western The investigator should determine the optimal working dilution for a specific application.

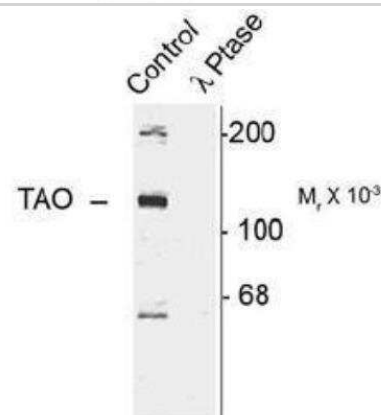


## Images

Western Blot: TAO2 [p Ser181] Antibody [NB300-233] - Western blot of rat hippocampal lysate showing specific labeling of the ~120 kDa TAO Kinase 2 (phospho-Ser181) band.



Western Blot: TAO2 [p Ser181] Antibody [NB300-233] - Western blot of rat cortex lysate showing specific immunolabeling of the ~120k TAO2 phosphorylated at Ser181 (Control). The phosphospecificity of this labeling is shown in the second lane (lambda-phosphatase). The blot is identical to the control except that it was incubated (1200 units for 30 min) before being exposed to the Ser181 TAO2 antibody. The immunolabeling is completely eliminated by treatment with lambda-phosphatase.



## Publications

Nsiah NY, Inman DM. Destabilizing COXIV in Müller Glia Increases Retinal Glycolysis and Alters Scotopic Electroretinogram Cells 2022-11-24 [PMID: 36497016]

Nsiah N Y, Morgan A B et al. Long-term HIF-1 $\alpha$  stabilization reduces respiration, promotes mitophagy, and results in retinal cell death. Sci Rep 2024-11-23 [PMID: 37996657]

Details:  
1:25

Chen, Z, Raman, M, Chen, L, Lee, SF, Gilman, AG, Cobb, MH. TAO (thous--one amino acid) protein kinases mediate signaling from carbachol to p38 mitogen-activated protein kinase ternary complex factors, J. Biol Chem 278 22,278-22,283. 2003-01-01 [PMID: 12665513]

Chen, Z, Cobb, MH. Regulation of stress-responsive mitogen-activated protein (MAP) kinase pathways by TAO2, J. Biol Chem 276 16,070-16,075. 2001-01-01 [PMID: 11279118]

Chen, Z, Hutchison, M, Cobb, MH. Isolation of the protein kinase TAO2 identification of its mitogen-activated protein kinase/extracellular signal-regulated kinase binding domain, J. Biol Chem 274 28,803-28,807. 1999-01-01 [PMID: 10497253]



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NB300-233**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-81465PEP	TAO2 Recombinant Protein Antigen

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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