

# 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)



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### Publications: 5

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Updated 9/9/2025 v.20.1

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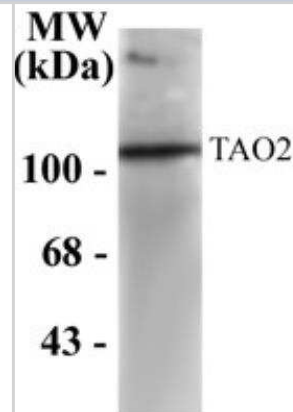


**NB300-233****TAO2 [p Ser181] Antibody - Azide Free**

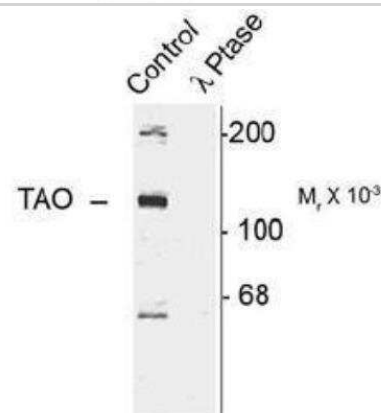
<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG
<b>Purity</b>	Antigen Affinity-purified
<b>Buffer</b>	10mM HEPES (pH 7.5), 0.15M NaCl, 0.1 mg/ml BSA and 50% Glycerol
<b>Target Molecular Weight</b>	120 kDa
<b>Product Description</b>	
<b>Description</b>	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.
<b>Host</b>	Rabbit
<b>Gene ID</b>	9344
<b>Gene Symbol</b>	TAOK2
<b>Species</b>	Human, Mouse, Rat
<b>Reactivity Notes</b>	Reactivity assumed based on 100% sequence homology: Finch.
<b>Specificity/Sensitivity</b>	Specific for endogenous levels of the ~120 kDa TAO2 phosphorylated at Ser181. Immunolabeling is completely eliminated by treatment with lambda-phosphatase.
<b>Immunogen</b>	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser181 conjugated to KLH. Accession # Q9UL54
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot
<b>Recommended Dilutions</b>	Western Blot 1:1000
<b>Application Notes</b>	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]



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

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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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