

# Product Datasheet

## Phosphoserine Antibody (PSR-45) NB600-405

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NB600-405**

## Phosphoserine Antibody (PSR-45)

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	This product is unpurified. The exact concentration of antibody is not quantifiable.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	PSR-45
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Unpurified
<b>Buffer</b>	Ascites
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Mouse Phosphoserine Antibody (PSR-45) (NB600-405) is a monoclonal antibody validated for use in WB and ELISA. Anti-Phosphoserine Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Species</b>	Human, Rat, Rabbit
<b>Reactivity Notes</b>	Rabbit reactivity reported in scientific literature (PMID: 26003536)
<b>Specificity/Sensitivity</b>	By ELISA and dot blot, the antibody reacts specifically with phosphorylated serine, both as free amino acid or conjugated to carriers such as BSA or KLH. No cross-reactivity is observed with non-phosphorylated serine, phosphothreonine, phosphotyrosine, AMP or ATP. This antibody has been used in immunoblotting for the localization of some phosphoserine-containing proteins. Certain proteins known to contain phosphorylated serine may not be recognized by this antibody due to steric hindrance of the recognition site.
<b>Immunogen</b>	Phosphoserine conjugated to Keyhole Limpet Hemocyanin (KLH).
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA
<b>Recommended Dilutions</b>	Western Blot 1:500-1:1000, ELISA 1:4000
<b>Application Notes</b>	Do not use milk as a blocking agent or in diluents, as milk casein is phosphorylated at several serine residues. BSA is recommended instead. The ELISA dilution given is for indirect.

## Images

Western Blot: Phosphoserine Antibody (PSR-45) [NB600-405] - Whole cell extract of rat brain cortex was separated on SDS-PAGE and blotted with Monoclonal Anti-Phosphoserine. The antibody was developed with Goat Anti-Mouse IgG, Biotin Conjugate, ExtrAvidin, Peroxidase Conjugate and AEC substrate. Lane A: Antibody dilution 1:1000 Lane B: Negative control (only secondary antibody)



## Publications

Ma S, Han J, Li Z et al. An XBP1s-PIM-2 positive feedback loop controls IL-15-mediated survival of natural killer cells *Science immunology* 2023-03-17 [PMID: 36897958]

Utada K, Ishida K, Tohyama S et al. The combination of insulin-like growth factor 1 and erythropoietin protects against ischemic spinal cord injury in rabbits *J Anesth* 2015-05-25 [PMID: 26003536] (WB, Rabbit)



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### **Products Related to NB600-405**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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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