

# Product Datasheet

## Dynamin [p Ser778] Antibody - Azide Free NB300-210

Unit Size: 0.1 ml

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

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### Publications: 3

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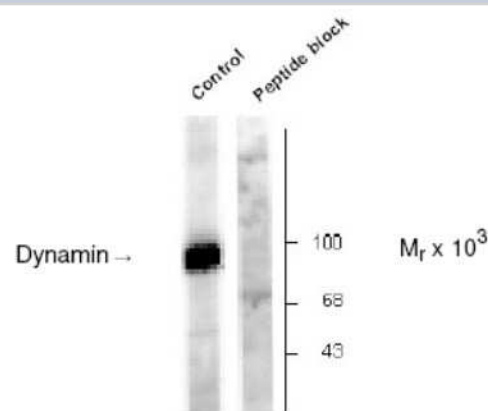
**NB300-210**

Dynamin [p Ser778] 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	95 kDa
Product Description	
Host	Sheep
Gene ID	1759
Gene Symbol	DNM1
Species	Mouse, Rat
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 26658127)
Specificity/Sensitivity	Specific for endogenous levels of the ~95 kDa dynamin protein phosphorylated at Ser778. Labels the purified protein phosphorylated in vitro by cdk5 but not by PKC. Does not cross react with other purified substrates of cdk5 (e.g. amphiphysin and synapsin). Immunolabeling is completely eliminated by treatment with lambda-phosphatase.
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser778 conjugated to KLH. Accession # P21575
Product Application Details	
Applications	Western Blot
Recommended Dilutions	Western Blot 1:1000
Application Notes	This antibody is useful in Western blot where a band is seen at ~ 95kD, representing Dynamin. Immunohistochemistry and Immunofluorescence have not been tested.

**Images**

Western Blot: Dynamin [p Ser778] Antibody [NB300-210] - Analysis of rat hippocampal lysate stimulated with forskolin showing specific immunolabeling of the ~95k dynamin phosphorylated at Ser778 (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 in lambda-Ptase (1200 units for 30 min) before being exposed to the Anti-Ser778 dynamin. The immunolabeling is completely eliminated by treatment.



## Publications

Du JJ, Yan L, Zhang W et al. Clathrin-independent but dynamin-dependent mechanisms mediate Ca<sup>2+</sup>-triggered endocytosis of the glutamate GluK2 receptor upon excitotoxicity *Journal of Integrative Neuroscience* 2020-09-30 [PMID: 33070524] (Block/Neutralize)

Patel A, Yamashita N, Ascano M et al. RCAN1 links impaired neurotrophin trafficking to aberrant development of the sympathetic nervous system in Down syndrome. *Nat Commun.* 2015-12-15 [PMID: 26658127] (WB, Mouse)

### Details:

phospho-Dynamin [Ser778] antibody was used for WB analysis of lysates from salivary glands of mouse pups P1 (mouse model of Down syndrome) and NGF stimulated sympathetic neurons of P0.5 Sprague–Dawley rats. The lysates were prepared in Laemmli buffer (62.5mM Tris-HCl, 2% SDS, 10% Glycerol, 5% 2-mercaptoethanol, 0.01% bromophenol blue) and the antibody was employed at 1:5000 dilution.

Tan, TC et al. Cdk5 is Essential for Synaptic Vesicle Endocytosis. *Nat. Cell Bio.*, 5(8): 701-710. 2003-01-01 [PMID: 12855954]





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HAF016	Donkey anti-Sheep IgG Secondary Antibody [HRP]
NL010	Donkey anti-Sheep IgG Secondary Antibody [NL557]
NBP1-97055-10mg	Sheep IgG Isotype Control
NBP2-76558PEP	Dynamin 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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