

# Product Datasheet

## Nicotinic Acetylcholine R alpha 4/CHRNA4 Antibody NBP1-00143

Unit Size: 0.1 mg

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

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



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

### Publications: 1

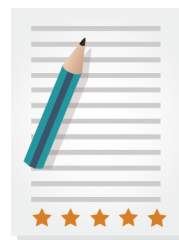
Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NBP1-00143](http://www.novusbio.com/NBP1-00143)

Updated 9/9/2025 v.20.1

Earn rewards for product  
reviews and publications.

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/NBP1-00143](http://www.novusbio.com/reviews/destination/NBP1-00143)



**NBP1-00143****Nicotinic Acetylcholine R alpha 4/CHRNA4 Antibody****Product Information**

|                      |                                                        |
|----------------------|--------------------------------------------------------|
| <b>Unit Size</b>     | 0.1 mg                                                 |
| <b>Concentration</b> | 0.5 mg/ml                                              |
| <b>Storage</b>       | Store at -20C. Avoid freeze-thaw cycles.               |
| <b>Clonality</b>     | Polyclonal                                             |
| <b>Preservative</b>  | 0.02% Sodium Azide                                     |
| <b>Isotype</b>       | IgG                                                    |
| <b>Purity</b>        | Immunogen affinity purified                            |
| <b>Buffer</b>        | Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA |

**Product Description**

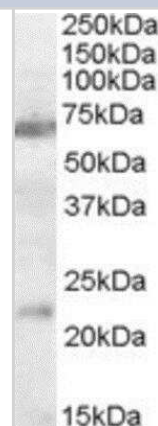
|                                |                                                                                                                                                                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>             | Novus Biologicals Goat Nicotinic Acetylcholine R alpha 4/CHRNA4 Antibody (NBP1-00143) is a polyclonal antibody validated for use in WB and ELISA. Anti-Nicotinic Acetylcholine R alpha 4/CHRNA4 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| <b>Host</b>                    | Goat                                                                                                                                                                                                                                                                                                  |
| <b>Gene ID</b>                 | 1137                                                                                                                                                                                                                                                                                                  |
| <b>Gene Symbol</b>             | CHRNA4                                                                                                                                                                                                                                                                                                |
| <b>Species</b>                 | Human, Rat                                                                                                                                                                                                                                                                                            |
| <b>Specificity/Sensitivity</b> | This antibody is expected NOT to cross-react with the similar alpha 2 subunit.                                                                                                                                                                                                                        |
| <b>Immunogen</b>               | Peptide with sequence C-HVETRAHAEERLLKK corresponding to internal region according to NP_000735.1.                                                                                                                                                                                                    |

**Product Application Details**

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>          | Western Blot, Peptide ELISA, Immunoprecipitation (Negative)                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Recommended Dilutions</b> | Western Blot 1 - 3 ug/ml, Peptide ELISA Detection limit 1:64000, Immunoprecipitation (Negative)                                                                                                                                                                                                                                                                                                                                                              |
| <b>Application Notes</b>     | IP: Not suitable. WB: Approx. 70 kDa band observed in rat brain lysates (calculated MW of 70.0 kDa band according to human NP_000735.1 and of 70.2 kDa band according to rat NP_077330.1). An additional band of unknown identity was also consistently observed at 22 kDa. This band was successfully blocked by incubation with the immunizing peptide. An anonymous customer has reported ~75 kDa band in both human and rat tissues as the glycoprotein. |

**Images**

Western Blot: Nicotinic Acetylcholine R alpha 4/CHRNA4 Antibody [NBP1-00143] - Analysis of Nicotinic Acetylcholine Receptor alpha 4 in Rat Brain lysate (35ug protein in RIPA buffer) using this antibody at 0.3ug/ml. Primary incubation was 1 hour. Detected by chemiluminescence.



## Publications

Schwarz J, Schwarz SC, Dorigo O et al. Enhanced expression of hypersensitive  $\alpha 4^*$  nAChR in adult mice increases the loss of midbrain dopaminergic neurons. FASEB J 2006-05-01 [PMID: 16675851]





### **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](http://www.novusbio.com)  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP1-00143**

|                    |                                                                                 |
|--------------------|---------------------------------------------------------------------------------|
| HAF017             | Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]          |
| HAF109             | Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]          |
| NB410-28088-1mg    | Goat IgG Isotype Control                                                        |
| H00001137-Q01-10ug | Recombinant Human Nicotinic Acetylcholine R alpha 4/CHRNA4 GST (N-Term) Protein |

### **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.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/NBP1-00143](http://www.novusbio.com/reviews/submit/NBP1-00143)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)



