

## UK Office

### Everest Biotech Ltd

Cherwell Innovation Centre  
77 Heyford Park  
Upper Heyford  
Oxfordshire  
OX25 5HD  
UK

Enquiries:

[info@everestbiotech.com](mailto:info@everestbiotech.com)

Sales:

[sales@everestbiotech.com](mailto:sales@everestbiotech.com)

Tech support:

[support@everestbiotech.com](mailto:support@everestbiotech.com)

Tel: +44 (0)1869 238326

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

**Research Use Only. Not for  
diagnostic or therapeutic use.**

## EB08852 - Goat Anti-CHRNA4 (aa29-43) Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** CHRNA4, cholinergic receptor, nicotinic, alpha 4, BFNC, EBN, EBN1, NACRA4, cholinergic receptor, nicotinic, alpha 4 subunit, cholinergic receptor, nicotinic, alpha polypeptide 4, neuronal acetylcholine receptor alpha 4 subunit, neuronal nicotinic acetylcholine receptor alpha-4 subunit

**Official Symbol:** CHRNA4

**Accession Number(s):** NP\_000735.1

**Human GeneID(s):** [1137](#)

**Non-Human GeneID(s):** 11438 (mouse), 25590 (rat)

**Important Comments:** This antibody is expected NOT to cross-react with the similar alpha 2 subunit.

### Immunogen

Peptide with sequence C-HVETRAHAEERLLKK, from the internal region of the protein sequence according to NP\_000735.1.

Please note the [peptide](#) is available for sale.

### Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

### Applications Tested

**Peptide ELISA:** antibody detection limit dilution 1:64000.

**Western blot:** Approx 70kDa band observed in Rat Brain lysates (calculated MW of 70.0kDa according to Human NP\_000735.1 and of 70.2kDa according to Rat NP\_077330.1). Recommended concentration: 1-3µg/ml. An additional band of unknown identity was also consistently observed at 22kDa. This band was successfully blocked by incubation with the immunising peptide. We would appreciate any feedback from people in the field - have any such results been reported with other antibodies/lysates? Have any further splice variants/modified forms been reported? ~75kDa confirmed in both human and rat tissues as the glycoprotein by an anonymous customer.

This antibody was shown unfit for immune precipitation.

### Species Reactivity

**Tested:** Human, Rat

**Expected from sequence similarity:** Human, Mouse, Rat, Dog, Cow



EB08852 (0.3 $\mu$ g/ml) staining of Rat Brain lysate (35 $\mu$ g protein in RIPA buffer). Primary incubation was 1 hour.  
Detected by chemiluminescence.