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

Storage: For long-term storage keep aliquots at -20°C. (Store no longer than 12 months at 4°C). Minimize freezing and thawing.

## EB07121 - Goat Anti-ADRA2A Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** alpha-2AAR subtype C10, alpha-2A-adrenergic receptor, OTTHUMP0000058849, ZNF32, ALPHA2AAR, ADRAR, ADRA2R, ADRA2, adrenergic, alpha-2A-, receptor, ADRA2A

**Official Symbol:** ADRA2A

**Accession Number(s):** NP\_000672.2

**Human GeneID(s):** [150](#)

### Immunogen

Peptide with sequence C-TERRP NGLGPERS, from the internal region of the protein sequence according to NP\_000672.2.

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 1:32000.

**Western blot:** Preliminary experiments gave a band at approx 37kDa and a minor band at approx 23kDa in Human Brain lysates after 1µg/ml antibody staining. Please note that currently we cannot find an explanation in the literature for the bands we observe given the calculated size of 49.0kDa according to NP\_000672.2. Both detected bands were successfully blocked by incubation with the immunizing peptide (and BLAST results with the immunizing peptide sequence did not identify any other proteins to explain the additional bands). We would appreciate any feedback from people in the field - have any results been reported with other antibodies/lysates? Have any further splice variants/modified forms been reported?

**Immunofluorescence:** This product has been successfully used in IF on Mouse primary DRG cultured neurons: Tan et al, J Biol Chem. 2009 Mar 6;284(10):6270-81 (PMID: 19126537).

### Species Reactivity

**Tested:** Mouse

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

### Specific Reference

The goat polyclonal antibody used in this paper was manufactured by us:

Tan M, Walwyn WM, Evans CJ, Xie CW.

p38 MAPK and beta-arrestin 2 mediate functional interactions between endogenous micro-opioid and alpha2A-adrenergic receptors in neurons.

J Biol Chem. 2009 Mar 6;284(10):6270-81. Epub 2009 Jan 6.

**PMID:** 19126537