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

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

## Product: EB08499 – Goat anti-NMNAT2 antibody

*This product is one of a range of **Investigative Grade** antibodies, made against targets that have limited or no commercial antibodies available to them and for which there are no data on the expression of the protein in the range of common cell lines and tissues available to us. These antibodies are affinity purified using their peptide immunogen and are known to give low background staining in a western blot (see Application Notes below). However no additional claims are made for their ability to recognise native protein in any application.*

### **Target Protein**

Principal Names: NMNAT2 ; nicotinamide nucleotide adenylyltransferase 2 ; RP11-181K3.3; C1orf15N: KIAA0479; MGC2756; PNAT-2; PNAT2; nicotinamide mononucleotide adenylyltransferase 2; pyridine nucleotide adenylyltransferase 2

Official Gene Symbol: NMNAT2

Accession Number(s): NP\_055854.1; NP\_733820.1

Human Gene ID(s): 23057

This antibody is expected to recognize both reported isoforms (NP\_055854.1; NP\_733820.1).

### **Immunogen**

Peptide with sequence C-RDAADTDRIMNHSS, from the internal region of the protein sequence according to NP\_055854.1; NP\_733820.1

### **Purification**

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

Supplied as 100 µg of purified antibody. 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

### **Applications Tested**

Peptide ELISA: antibody detection limit dilution 1:4,000. Western Blot: Preliminary experiments in Human Brain (Cerebellum, Hippocampus, Amygdala) lysates gave no specific signal but low background (at antibody concentration up to 1µg/ml). We would appreciate any feedback from people in the field - have any results been reported with other antibodies/lysates?

### **Species Reactivity**

Tested:

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

### **Background Reference**

Sorci L, Cimadamore F, Scotti S, Petrelli R, Cappellacci L, Franchetti P, Orsomando G, Magni G.

Initial-rate kinetics of human NMN-adenylyltransferases: substrate and metal ion specificity, inhibition by products and multisubstrate analogues, and isozyme contributions to NAD<sup>+</sup> biosynthesis.

Biochemistry. 2007 Apr 24;46(16):4912-22. Epub 2007 Apr 3.

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