

## Product datasheet for **AP17872PU-N**

### alpha 2b Adrenergic Receptor (ADRA2B) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	FC, IF, IHC, WB
Recommended Dilution:	<b>Western blotting:</b> 1/1000. <b>Flow Cytometry:</b> 1/10-1/50. <b>Immunofluorescence:</b> 1/10-1/50. <b>Immunohistochemistry (Paraffin):</b> 1/50-1/100.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 343-369 amino acids from the Center region of Human ADRA2B.
Specificity:	This antibody recognizes Alpha-2B adrenergic receptor.
Formulation:	PBS with 0.09% (W/V) Sodium Azide as preservative State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A followed by peptide affinity purification.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	adrenoceptor alpha 2B
Database Link:	<a href="#">Entrez Gene 151 Human P18089</a>



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**Background:**

Alpha-2-adrenergic receptors are members of the G protein-coupled receptor superfamily. They include 3 highly homologous subtypes: alpha2A, alpha2B, and alpha2C. These receptors have a critical role in regulating neurotransmitter release from sympathetic nerves and from adrenergic neurons in the central nervous system. Alpha 2B adrenergic receptor subtype was observed to associate with eIF-2B, a guanine nucleotide exchange protein that functions in regulation of translation. A polymorphic variant of the alpha2B subtype, which lacks 3 glutamic acids from a glutamic acid repeat element, was identified to have decreased G protein-coupled receptor kinase-mediated phosphorylation and desensitization; this polymorphic form is also associated with reduced basal metabolic rate in obese subjects and may therefore contribute to the pathogenesis of obesity. Alpha 2B adrenergic receptor gene contains no introns in either its coding or untranslated sequences.

**Synonyms:**

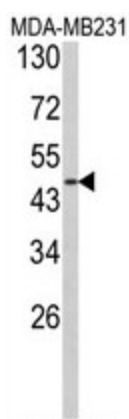
ADRA2L1, ADRA2RL1, Alpha-2B adrenoreceptor, Alpha-2B adrenoceptor

**Protein Families:**

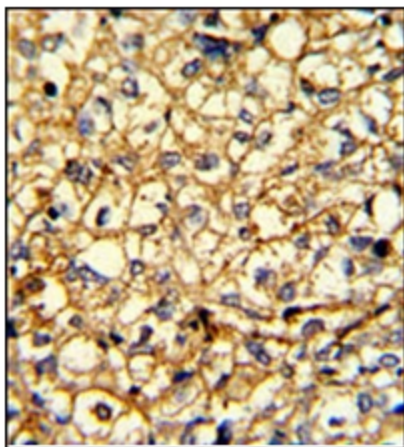
Druggable Genome

**Protein Pathways:**

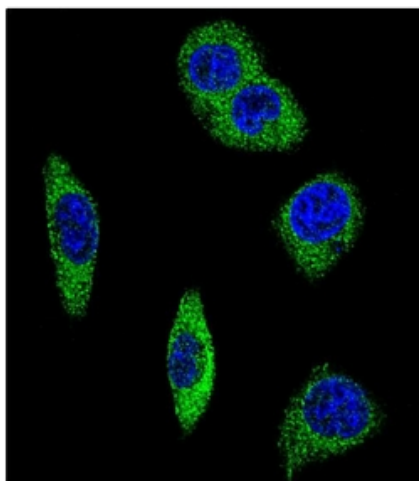
Neuroactive ligand-receptor interaction

**Product images:**


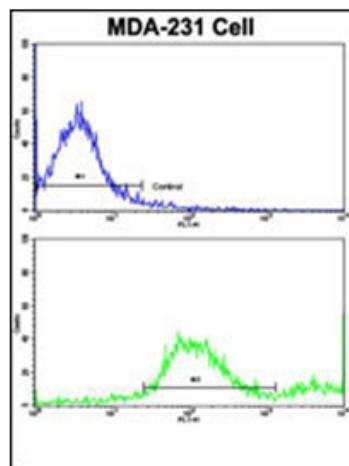
Western blot analysis of ADRA2B Antibody (Center) in MDA-MB231 cell line lysates (35ug/lane). ADRA2B (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human breast carcinoma with ADRA2B Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Confocal immunofluorescent analysis of ADRA2B Antibody (Center) with MDA-MB231 cell followed by Alexa Fluor® 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



Flow cytometric analysis of MDA-231 cells using ADRA2B Antibody (Center) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.