

ADRA2B Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8566c**Specification**

ADRA2B Antibody (Center) - Product Information

Application	WB, IF, FC, IHC-P,E
Primary Accession	P18089
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	343-369

ADRA2B Antibody (Center) - Additional Information**Gene ID** 151**Other Names**

Alpha-2B adrenergic receptor, Alpha-2 adrenergic receptor subtype C2, Alpha-2B adrenoreceptor, Alpha-2B adrenoceptor, Alpha-2BAR, ADRA2B, ADRA2L1, ADRA2RL1

Target/Specificity

This ADRA2B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 343-369 amino acids from the Central region of human ADRA2B.

Dilution

WB~~1:1000
IF~~1:10~50
FC~~1:10~50
IHC-P~~1:50~100
E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ADRA2B Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

ADRA2B Antibody (Center) - Protein Information**Name** ADRA2B

Synonyms ADRA2L1, ADRA2RL1

Function Alpha-2 adrenergic receptors mediate the catecholamine- induced inhibition of adenylate cyclase through the action of G proteins. The rank order of potency for agonists of this receptor is clonidine > norepinephrine > epinephrine = oxymetazoline > dopamine > p-tyramine = phenylephrine > serotonin > p-syneprine / p-octopamine. For antagonists, the rank order is yohimbine > chlorpromazine > phentolamine > mianserine > spiperone > prazosin > alprenolol > propanolol > pindolol.

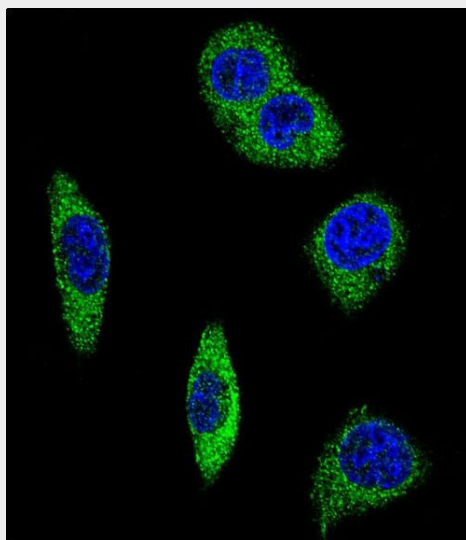
Cellular Location

Cell membrane; Multi-pass membrane protein. Note=Interaction with RAB26, GGA1, GGA2 and GGA3 mediates transport from the Golgi to the cell membrane.

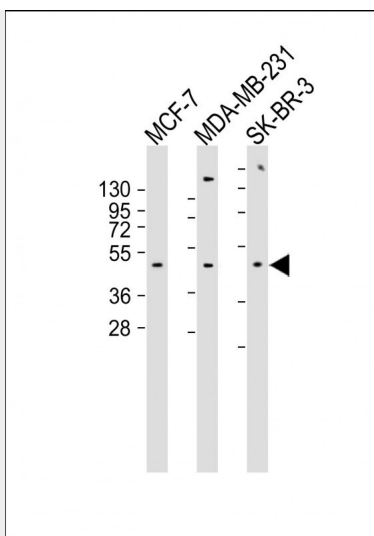
ADRA2B Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

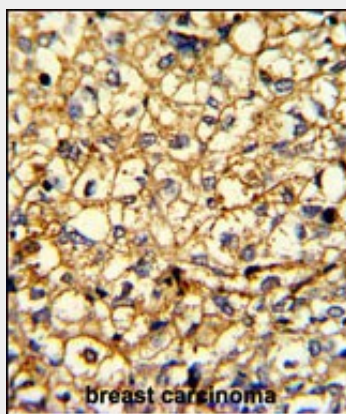
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ADRA2B Antibody (Center) - Images

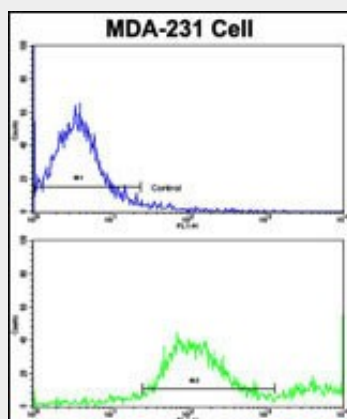
Confocal immunofluorescent analysis of ADRA2B Antibody (Center)(Cat#AP8566c) with MDA-MB231 cell followed by Alexa Fluor® 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



All lanes : Anti-ADRA2B Antibody (Center) at 1:1000 dilution Lane 1: MCF-7 whole cell lysate Lane 2: MDA-MB-231 whole cell lysate Lane 3: SK-BR-3 whole cell lysate Lysates/proteins at 20 μ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 50 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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.



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

ADRA2B Antibody (Center) - 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.

ADRA2B Antibody (Center) - References

Tabakoff,B., et.al., BMC Biol. 7, 70 (2009) Weinshank,R.L., et.al. Mol. Pharmacol. 38 (5), 681-688 (1990)