

ADRB2 Recombinant antibody

Catalog Number: 83317-5-RR

Basic Information

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| Catalog Number: 83317-5-RR | GenBank Accession Number: BC012481 | Purification Method: Protein A purification |
| Size: 1000 µg/ml | GeneID (NCBI): 154 | CloneNo.: 240186C9 |
| Source: Rabbit | UNIPROT ID: P07550 | Recommended Dilutions: IF/ICC 1:200-1:800 |
| Isotype: IgG | Full Name: adrenergic, beta-2-, receptor, surface | |
| Immunogen Catalog Number: AG3715 | Calculated MW: 46 kDa | |

Applications

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| Tested Applications: IF/ICC, ELISA | Positive Controls: IF/ICC : A431 cells, |
| Species Specificity: Human | |

Background Information

Beta-2 adrenergic receptor (ADRB2), a member of the G protein-coupled receptor (GPCR) family, binds epinephrine with an approximately 30-fold greater affinity than it does norepinephrine. ADRB2 is directly linked to one of its final effectors, the class C L-type Ca²⁺ channel, Cav1.2 (PMID: 11441182). This receptor-channel complex also contains a G protein, an adenylyl cyclase, cyclic adenosine monophosphate-dependent protein kinase (PKA), and a counteracting phosphatase, PP2A. Different polymorphic forms, point mutations, and/or downregulation of the gene of ADRB2 are associated with nocturnal asthma, obesity, and type 2 diabetes.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

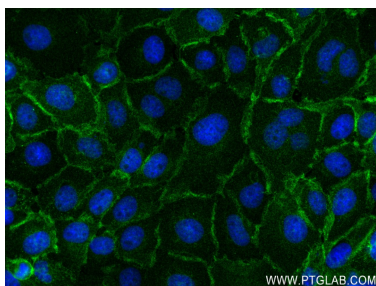
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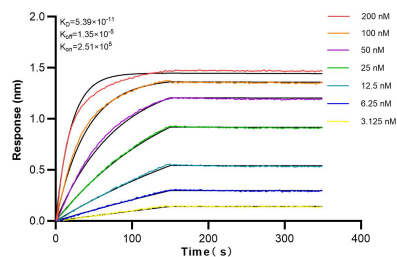
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Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed A431 cells using ADRB2 antibody (83317-5-RR, Clone: 240186C9) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1).



Biolayer interferometry (BLI) kinetic assays of 83317-5-RR against Human ADRB2 were performed. The affinity constant is 53.9 pM.