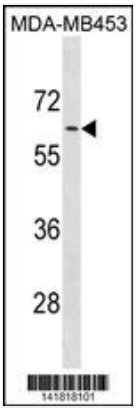
# ADRA1B Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | ADRA1B, Polyclonal Antibody |
| **Full Product Name** | ADRA1B Antibody (C-term) |
| **Product Gene Name** | anti-ADRA1B antibody |
| **Product Synonym Names** | Alpha-1B adrenergic receptor; Alpha-1B adrenoreceptor; Alpha-1B adrenoceptor; ADRA1B |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit Ig |
| **Host** | Rabbit |
| **Species Reactivity** | Human (Predicted Reactivity: Mouse, Rat) |
| **Form/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. |
| **Purity/Purification** | Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab) |
| **Concentration** | Vial Concentration: 0.5 (lot specific) |
| **Specificity** | This ADRA1B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 380-409 amino acids from the C-terminal region of human ADRA1B. |
| **Preparation and Storage** | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |
| **Antibody/Peptide Pairs** | ADRA1B peptide (MBS9228721) is used for blocking the activity of ADRA1B antibody (MBS9202167) |
| **Molecular Weight** | 56836 |
| **Immunogen Sequence Positions** | 380-409 |
| **OMIM** | 104220 |
| **3D Structure** | ModBase 3D Structure for P35368 |
| **Antigen Type** | Synthetic Peptide |
| **Antigen Source** | HUMAN |
| **Product Categories/Family for anti-ADRA1B antibody** | Cardiovascular; Neuroscience; Signal Transduction; GPCR Antibodies |
| **Applications Tested/Suitable for anti-ADRA1B antibody** | Western Blot (WB), ELISA (EIA) |
| **Application Notes for anti-ADRA1B antibody** | WB~~1:1000 |

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| **Related Product Information for anti-ADRA1B antibody** | Alpha-1-adrenergic receptors (alpha-1-ARs) are members of the G protein-coupled receptor superfamily. They activate mitogenic responses and regulate growth and proliferation of many cells. There are 3 alpha-1-AR subtypes: alpha-1A, -1B and -1D, all of which signal through the Gq/11 family of G-proteins and different subtypes show different patterns of activation. This gene encodes alpha-1B-adrenergic receptor, which induces neoplastic transformation when transfected into NIH 3T3 fibroblasts and other cell lines. Thus, this normal cellular gene is identified as a protooncogene. This gene comprises 2 exons and a single large intron of at least 20 kb that interrupts the coding region. |
| **Product References and Citations for anti-ADRA1B antibody** | Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)<br>Pinheiro, A.P., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 153B (5), 1070-1080 (2010) :<br>Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :<br>Jensen, B.C., et al. Circ Heart Fail 2(6):654-663(2009)<br>Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009) |
| **Other Notes** | Small volumes of anti-ADRA1B antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for ADRA1B purchase** | MBS9202167 is an antibody targeting ADRA1B. Also known as ADRA1B Antibody (C-term). Reactive in Human (Predicted Reactivity: Mouse, Rat). Host: Rabbit. |




**Western Blot (WB) of anti-ADRA1B antibody**
ADRA1B Antibody (C-term) western blot analysis in MDA-MB453 cell line lysates (35ug/lane).This demonstrates the ADRA1B antibody detected the ADRA1B protein (arrow).

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ADRA1B. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 4501959 |
| **NCBI GeneID** | 147 |
| **NCBI Accession #** | NP_000670.1 |
| **UniProt Primary Accession #** | P35368 |
| **UniProt Secondary Accession #** | B0LPE1 |
| **UniProt Related Accession #** | P35368 |
| **GenBank Nucleotide #** | NM_000679.3 |
| **NCBI Official Full Name** | alpha-1B adrenergic receptor |
| **NCBI Official Synonym Full Names** | adrenoceptor alpha 1B |
| **NCBI Official Symbol** | ADRA1B |

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| **NCBI Official Synonym Symbols** | ADRA1; ALPHA1BAR |
| **UniProt Protein Name** | Alpha-1B adrenergic receptor |
| **UniProt Synonym Protein Names** | Alpha-1B adrenoreceptor; Alpha-1B adrenoceptor |
| **Protein Family** | Alpha-1B adrenergic receptor |
| **UniProt Gene Name** | ADRA1B |
| **UniProt Synonym Gene Names** | Alpha-1B adrenoceptor |
| **UniProt Entry Name** | ADA1B_HUMAN |
| **NCBI Protein Information** | alpha-1B adrenergic receptor |
| **NCBI Summary for ADRA1B** | Alpha-1-adrenergic receptors (alpha-1-ARs) are members of the G protein-coupled receptor superfamily. They activate mitogenic responses and regulate growth and proliferation of many cells. There are 3 alpha-1-AR subtypes: alpha-1A, -1B and -1D, all of which signal through the Gq/11 family of G-proteins and different subtypes show different patterns of activation. This gene encodes alpha-1B-adrenergic receptor, which induces neoplastic transformation when transfected into NIH 3T3 fibroblasts and other cell lines. Thus, this normal cellular gene is identified as a protooncogene. This gene comprises 2 exons and a single large intron of at least 20 kb that interrupts the coding region. [provided by RefSeq, Jul 2008] |
| **UniProt Comments for ADRA1B** | ADRA1B: a G protein-coupled catecholamine receptor that activates mitogenic responses and regulates growth and proliferation of many cells. There are 3 alpha-1-AR subtypes: alpha-1A, -1B and -1D, all of which signal through the Gq/11 family of G-proteins and different subtypes show different patterns of activation. Can induce neoplastic transformation when transfected into cell lines. Can regulate the phosphorylation status of the STAT3 pathway. Mediates blood pressure and aorta contractile responses induced by alpha-1 agonists. Activates a phosphatidylinositol second messenger system.<br><br>Protein type: GPCR, family 1; Membrane protein, integral; Membrane protein, multi-pass; Receptor, GPCR<br><br>Chromosomal Location of Human Ortholog: 5q33.3<br><br>Cellular Component: nuclear membrane; integral to plasma membrane; plasma membrane; nucleus<br><br>Molecular Function: protein heterodimerization activity; alpha1-adrenergic receptor activity<br><br>Biological Process: adult heart development; vasoconstriction of artery involved in baroreceptor response to lowering of systemic arterial blood pressure; positive regulation of the force of heart contraction by epinephrine-norepinephrine; multicellular organismal development; response to amphetamine; response to morphine; locomotory behavior; glucose homeostasis; positive regulation of glycogen catabolic process; G-protein signaling, coupled to cAMP nucleotide second messenger; cell proliferation; G-protein coupled receptor protein signaling pathway; organ growth; cell-cell signaling; positive regulation of MAPKKK cascade; behavioral response to cocaine; regulation of vasoconstriction; visual learning; blood vessel remodeling; cell growth; positive regulation of heart rate by epinephrine-norepinephrine; negative regulation of glycogen catabolic process |
| **Research Articles on ADRA1B** | **1.** heteromeric receptor complexes between alpha1A-AR and CXCR4 and between alpha1B-AR and CXCR4 are constitutively expressed in rat and human vascular smooth muscle cells; the quaternary structure of the receptor complex is important for signaling and contraction |
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