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Anti-Alpha-1D Adrenergic Receptor Antibody

Rabbit polyclonal antibody to Alpha-1D Adrenergic Receptor
Catalog # AP60817

Product Information

Application	WB, IF/IC, IHC
Primary Accession	P25100
Other Accession	P97714
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	60463

Additional Information

Gene ID	146
Other Names	ADRA1A; Alpha-1D adrenergic receptor; Alpha-1A adrenergic receptor; Alpha-1D adrenoreceptor; Alpha-1D adrenoceptor; Alpha-adrenergic receptor 1a
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Alpha-1D Adrenergic Receptor. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/2000), IHC (1/50 - 1/200), IF/IC (1/50 - 1/100) IF/IC~~N/A IHC~~WB (1/500 - 1/2000), IHC (1/50 - 1/200), IF/IC (1/50 - 1/100)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

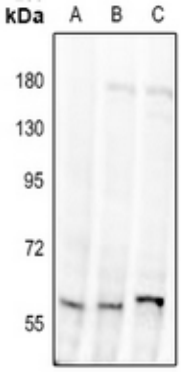
Name	ADRA1D (HGNC:280)
Synonyms	ADRA1A
Function	Alpha-1 adrenergic receptors are G protein-coupled receptors for catecholamines that signal through the G(q) family of G proteins, including G(q) and G(11). Upon activation, they stimulate the phosphatidylinositol-calcium second messenger pathway, leading to calcium release from intracellular stores and activation of protein kinase C (PubMed:7746284). ADRA1D binds the catecholamine ligands norepinephrine and epinephrine (PubMed:7815325, PubMed:8024574, PubMed:8183249).

Cellular Location Cell membrane; Multi-pass membrane protein.

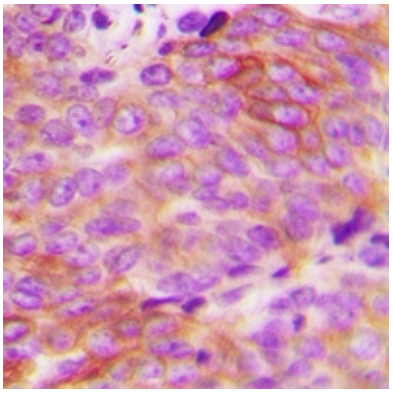
Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Alpha-1D Adrenergic Receptor. The exact sequence is proprietary.

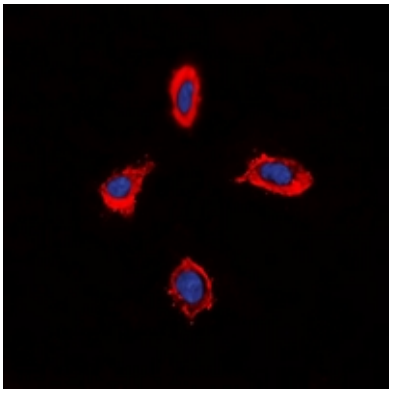
Images



Western blot analysis of Alpha-1D Adrenergic Receptor expression in H9C2 (A), Raw264.7 (B), U87MG (C) whole cell lysates.



Immunohistochemical analysis of Alpha-1D Adrenergic Receptor staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Alpha-1D Adrenergic Receptor staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).