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ADRA1D Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20589a

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	P25100
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB46798
Calculated MW	60463

Additional Information

Gene ID	146
Other Names	Alpha-1D adrenergic receptor, Alpha-1A adrenergic receptor, Alpha-1D adrenoreceptor, Alpha-1D adrenoceptor, Alpha-adrenergic receptor 1a, ADRA1D, ADRA1A
Target/Specificity	This ADRA1D antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 1-30amino acids from the N-terminal region of human ADRA1D.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:25 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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	ADRA1D Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

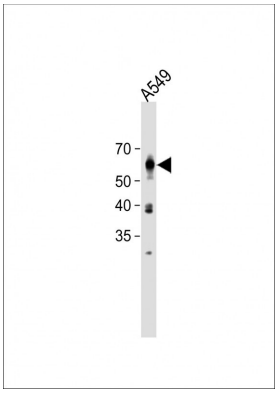
Background

This alpha-adrenergic receptor mediates its effect through the influx of extracellular calcium.

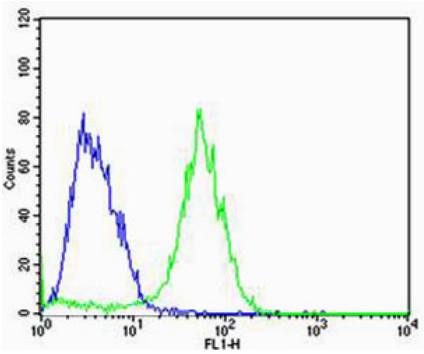
References

Bruno J.F.,et al.Biochem. Biophys. Res. Commun. 179:1485-1490(1991).
Forray C.,et al.Mol. Pharmacol. 45:703-708(1994).
Schwinn D.A.,et al.J. Pharmacol. Exp. Ther. 272:134-142(1995).
Weinberg D.H.,et al.Biochem. Biophys. Res. Commun. 201:1296-1304(1994).
Esbenshade T.A.,et al.Mol. Pharmacol. 47:977-985(1995).

Images

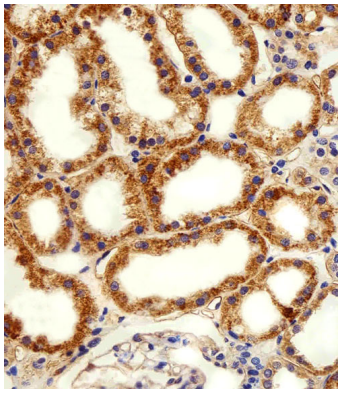


All lanes: Anti-ADRA1D Antibody (N-term) at 1:500 dilution + A549 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 60 KDa Blocking/Dilution buffer: 5% NFDM/TBST.



Flow cytometric analysis of MCF-7 cells using ADRA1D Antibody (N-term)(green, Cat#AP20589a) compared to an isotype control of rabbit IgG(blue). AP20589a was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-rabbit lgG at 1:400 dilution was used as the secondary antibody.

Immunohistochemical analysis of paraffin-embedded H. kidney section using ADRA1D Antibody (N-term)(Cat#AP20589a). AP20589a was diluted at 1:100 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



Citations

- Bim, Puma and Noxa upregulation by Naftopidil sensitizes ovarian cancer to the BH3-mimetic ABT-737 and the MEK inhibitor Trametinib