10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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
Predicted	Mouse, Bovine, Canine, Rabbit
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.

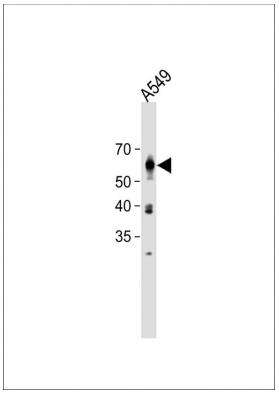
Background

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

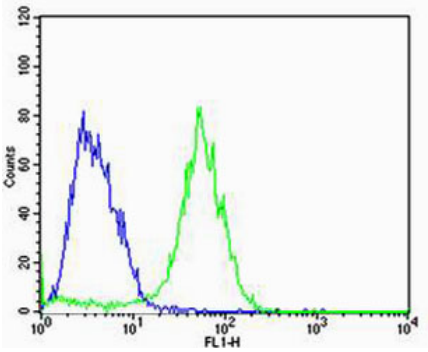
References

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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

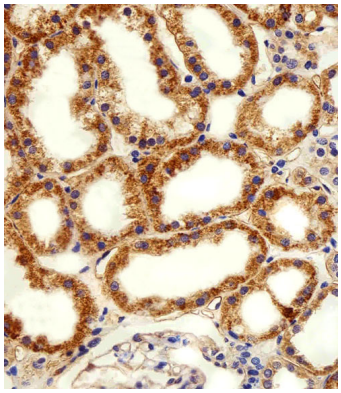


All lanes: Anti-ADRA1D Antibody (N-term) at 1:500 dilution + A549 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 60 KDa Blocking/Dilution buffer: 5% NFDM/TBST.



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.