

**ADRA1D Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP20589a**

### Specification

#### ADRA1D Antibody (N-term) - Product Information

Application	WB, IHC-P, FC,E
Primary Accession	<a href="#">P25100</a>
Reactivity	Human, Rat
Predicted	Mouse, Rabbit, Bovine, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	1-30

#### ADRA1D Antibody (N-term) - 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~~1:25

FC~~1:25

E~~Use at an assay dependent concentration.

##### 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.

##### 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.

#### ADRA1D Antibody (N-term) - 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

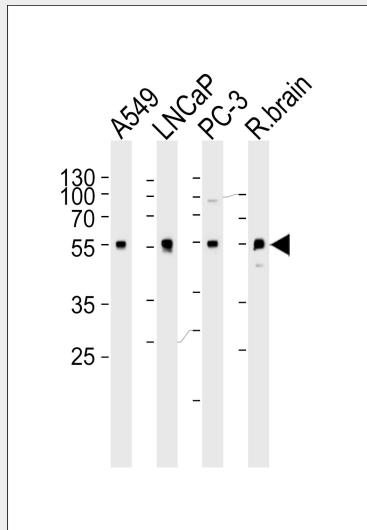
Cell membrane; Multi-pass membrane protein.

## ADRA1D Antibody (N-term) - Protocols

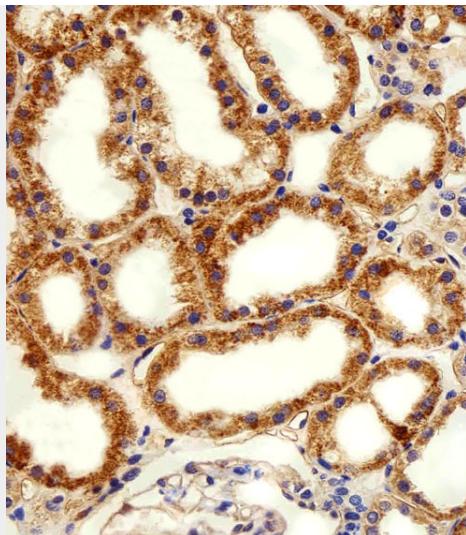
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

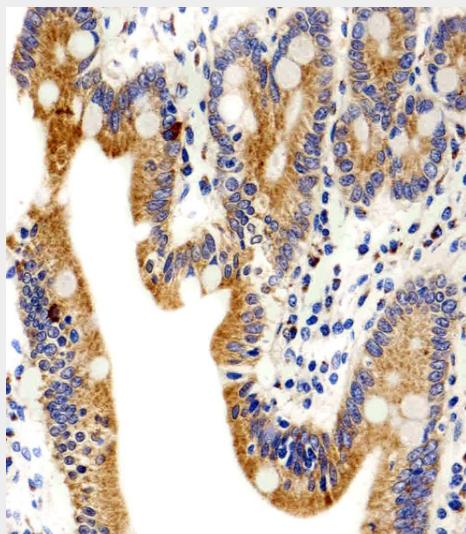
## ADRA1D Antibody (N-term) - Images



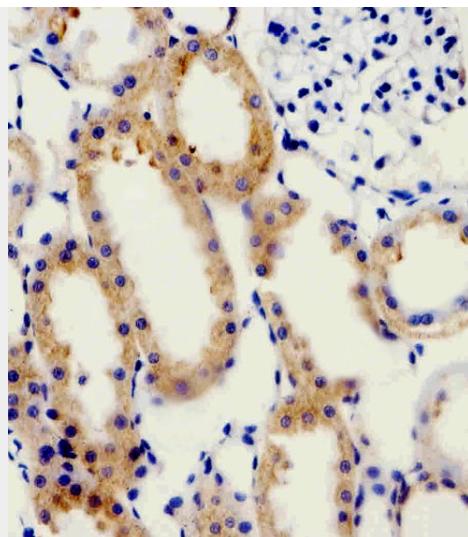
Western blot analysis of lysates from A549, LNCaP, PC-3 cell line and rat brain tissue lysate (from left to right), using ADRA1D Antibody (N-term) (Cat. #AP20589a). AP20589a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.



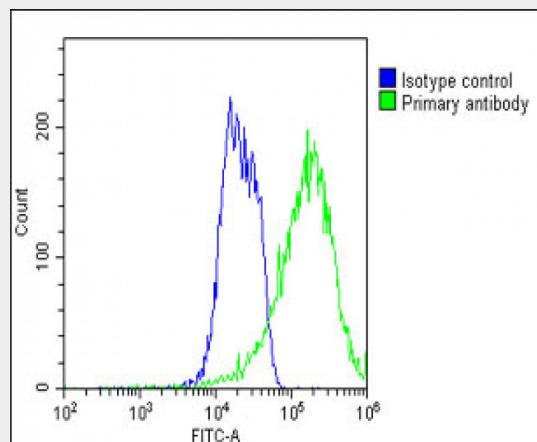
Immunohistochemical analysis of paraffin-embedded *H.* kidney section using ADRA1D Antibody (N-term)(Cat#AP20589a). AP20589a was diluted at 1:100 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



Immunohistochemical analysis of paraffin-embedded *H.* small intestine 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.



Immunohistochemical analysis of paraffin-embedded R. 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.



Overlay histogram showing MCF-7 cells stained with AP20589a(green line). The cells were fixed with 2% paraformaldehyde 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP20589a, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(1583138) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 (1 $\mu$ g/1 $\times$ 10 $^6$  cells) used under the same conditions. Acquisition of >10, 000 events was performed.

#### **ADRA1D Antibody (N-term) - Background**

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

#### **ADRA1D Antibody (N-term) - 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).

#### **ADRA1D Antibody (N-term) - Citations**

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