

ADRA1D Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5131**Specification**

ADRA1D Antibody (N-term) - Product Information

Application	IHC-P, WB, FC,E
Primary Accession	P25100
Reactivity	Human, Rat
Predicted	Rabbit, Bovine, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=60;M=60;Rat=59 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

ADRA1D Antibody (N-term) - Additional Information**Gene ID** 146**Antigen Region**
1-30**Other Names**

Alpha-1D adrenergic receptor, Alpha-1A adrenergic receptor, Alpha-1D adrenoreceptor, Alpha-1D adrenoceptor, Alpha-adrenergic receptor 1a, ADRA1D, ADRA1A

Dilution

IHC-P~~1:25
WB~~1:1000
FC~~1:25

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.

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](http://www.uniprot.org/citations/7746284)). ADRA1D binds the catecholamine ligands norepinephrine and epinephrine (PubMed:[7815325](http://www.uniprot.org/citations/7815325), PubMed:[8024574](http://www.uniprot.org/citations/8024574), PubMed:[8183249](http://www.uniprot.org/citations/8183249)).

Cellular Location

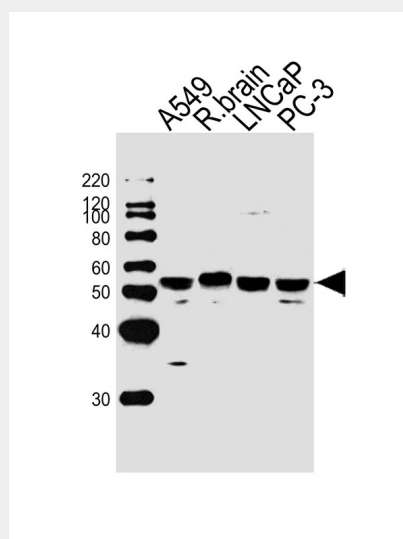
Cell membrane; Multi-pass membrane protein.

ADRA1D Antibody (N-term) - Protocols

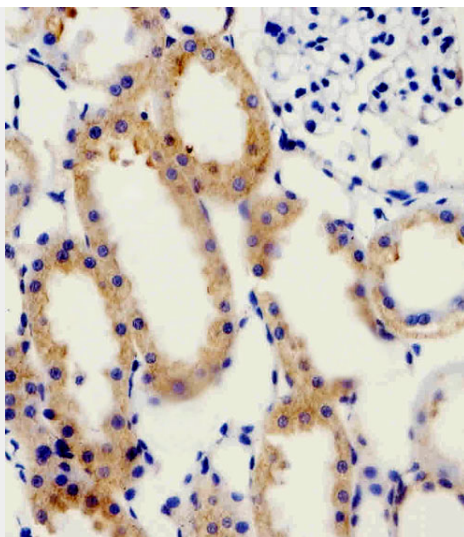
Provided below are standard protocols that you may find useful for product applications.

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

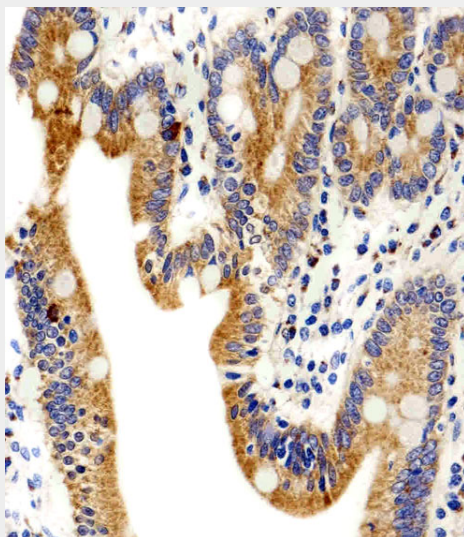
ADRA1D Antibody (N-term) - Images



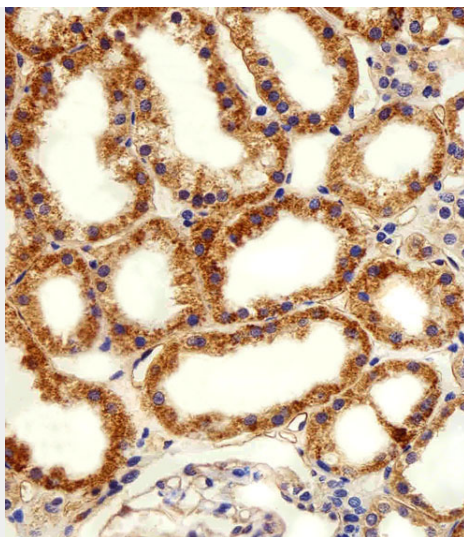
Western blot analysis of lysates from A549 cell line, rat brain tissue, LNCaP, PC-3 cell line (from left to right), using ADRA1D Antibody (N-term) (Cat. #AW5131). AW5131 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L (HRP) at 1:10000 dilution was used as the secondary antibody.



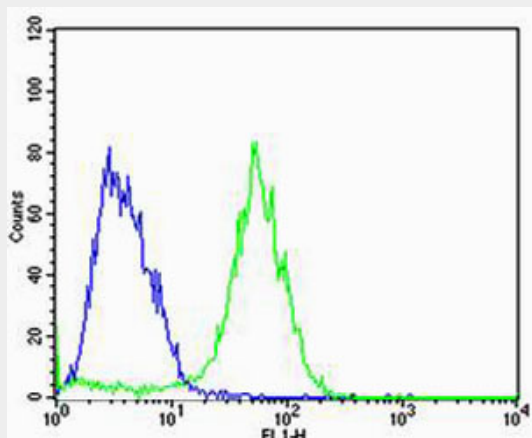
Immunohistochemical analysis of paraffin-embedded R. kidney section using ADRA1D Antibody (N-term)(Cat#AW5131). AW5131 was diluted at 1:100 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



Immunohistochemical analysis of paraffin-embedded H. small intestine section using ADRA1D Antibody (N-term)(Cat#AW5131). AW5131 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. kidney section using ADRA1D Antibody (N-term)(Cat#AW5131). AW5131 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.



Flow cytometric analysis of MCF-7 cells using ADRA1D Antibody (N-term)(green, Cat#AW5131) compared to an isotype control of rabbit IgG(blue). AW5131 was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody.

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).