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ADRB2 Antibody (S364)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7263E

Specification

ADRB2 Antibody (S364) - Product Information

Application	**IHC-P, WB, FC,E**
Primary Accession	P07550
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**345-373**

ADRB2 Antibody (S364) - Additional Information

Gene ID 154

Other Names
Beta-2 adrenergic receptor, Beta-2 adrenoreceptor, Beta-2 adrenoceptor, ADRB2, ADRB2R, B2AR

Target/Specificity
This ADRB2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 345-373 amino acids from human ADRB2.

Dilution
IHC-P~~1:100
WB~~1:1000
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
ADRB2 Antibody (S364) is for research use only and not for use in diagnostic or therapeutic procedures.

ADRB2 Antibody (S364) - Protein Information

Name ADRB2

Synonyms ADRB2R, B2AR

Function Beta-adrenergic receptors mediate the catecholamine-induced activation of adenylate cyclase through the action of G proteins. The beta-2-adrenergic receptor binds epinephrine with an approximately 30- fold greater affinity than it does norepinephrine.

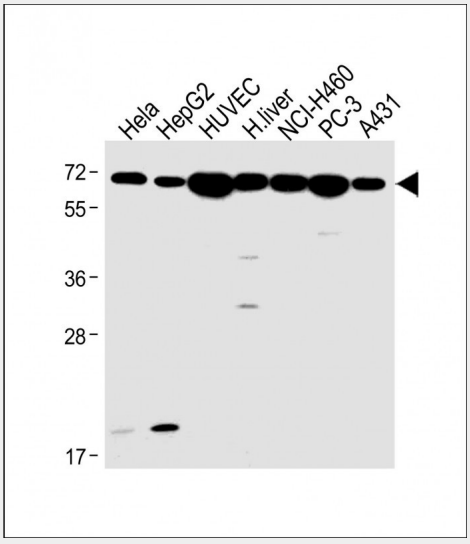
Cellular Location
Cell membrane; Multi-pass membrane protein. Early endosome. Golgi apparatus. Note=Colocalizes with VHL at the cell membrane (PubMed:19584355). Activated receptors are internalized into endosomes prior to their degradation in lysosomes (PubMed:20559325) Activated receptors are also detected within the Golgi apparatus (PubMed:27481942).

ADRB2 Antibody (S364) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ADRB2 Antibody (S364) - Images



All lanes : Anti-ADRB2 Antibody (S364) at 1:1000 dilution Lane 1: Hela whole cell lysate Lane 2: HepG2 whole cell lysate Lane 3: HUVEC whole cell lysate Lane 4: Human liver lysate Lane 5: NCI-H460 whole cell lysate Lane 6: PC-3 whole cell lysate Lane 7: A431 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 46 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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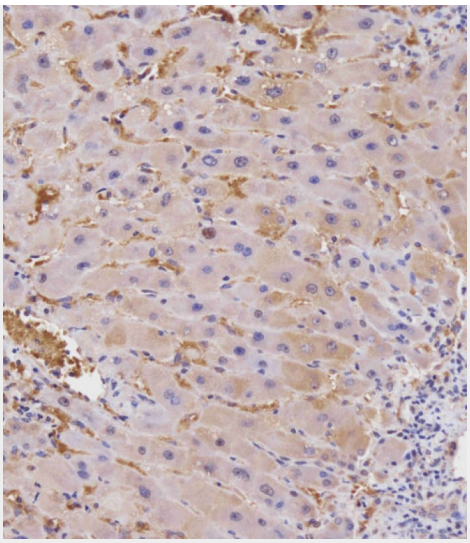
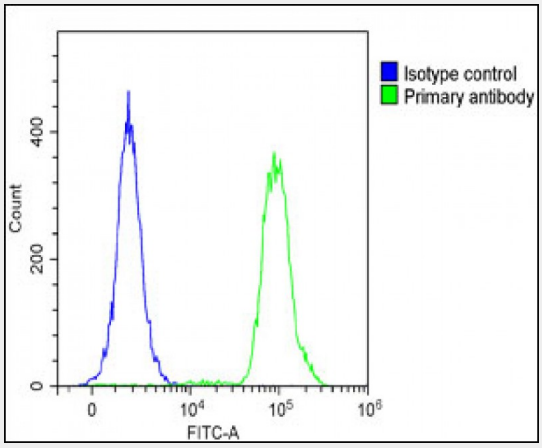


Immunohistochemical analysis of AP7263E on paraffin-embedded Human hepato carcinoma tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:100) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Overlay histogram showing A431 cells stained with AP7263E(green line). The cells were fixed with 2% paraformaldehyde and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed at 1/200 dilution for 40 min at Room temperature. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

ADRB2 Antibody (S364) - Background

ADRB2, beta-2-adrenergic receptor which is a member of the G protein-coupled receptor superfamily. This receptor is directly associated with one of its ultimate effectors, the class C L-type calcium channel Ca(V)1.2. This receptor-channel complex also contains a G protein, an adenylyl cyclase, cAMP-dependent kinase, and the counterbalancing phosphatase, PP2A. The assembly of the signaling complex provides a mechanism that ensures specific and rapid signaling by this G protein-coupled receptor. This protein is intronless.

ADRB2 Antibody (S364) - References

Kobilka B.K., Dixon R.A.F.Proc. Natl. Acad. Sci. U.S.A. 84:46-50(1987)
Emorine L.J., Marullo S.Proc. Natl. Acad. Sci. U.S.A. 84:6995-6999(1987)
Kobilka B.K., Frielle T.J. Biol. Chem. 262:7321-7327(1987)