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

BAR2 Antibody (S261)

Rabbit Polyclonal Antibody
Catalog # ABV11767

Product Information

Application	WB, IHC
Primary Accession	P07550
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	46459

Additional Information

Gene ID	154
Positive Control	Western blot, IHC
Application & Usage	WB: 1:1000, IHC: 1:50~101
Alias Symbol	BAR2
Other Names	Beta-2 adrenergic receptor, Beta-2 adrenoreceptor, Beta-2 adrenoceptor, ADRB2, ADRB2R, B2AR
Appearance	Colourless liquid
Formulation	100 □g (0.5 mg/ml) of antibody in PBS with 0.09% (W/V) sodium azide.
Reconstitution & Storage	-20 °C
Background Descriptions	
Precautions	BAR2 Antibody (S261) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

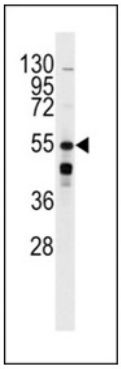
Name	ADRB2
Synonyms	ADRB2R, B2AR
Function	Beta-adrenergic receptors mediate the catecholamine-induced activation of adenylate cyclase through the action of G proteins. The beta-2-adrenergic receptor binds epinephrine with an approximately 30- fold greater affinity than it does norepinephrine.
Cellular 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).

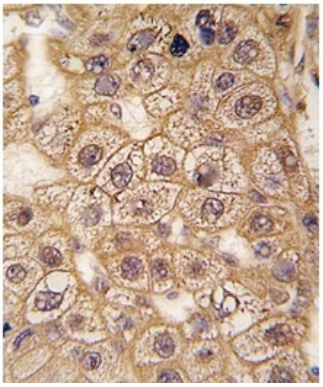
Background

Beta-2-adrenergic receptor 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. 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.

Images



Western blot analysis in mouse kidney lysates using BAR2(S261) purified Pab.



Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with BAR2 antibody(S261), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining.