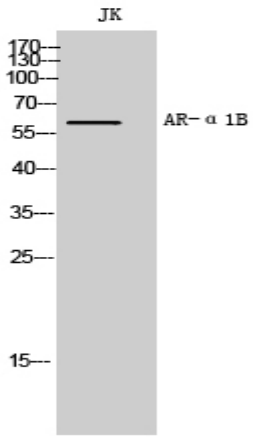
Best Tools for immunology Research

AR-α1B Polyclonal Antibody

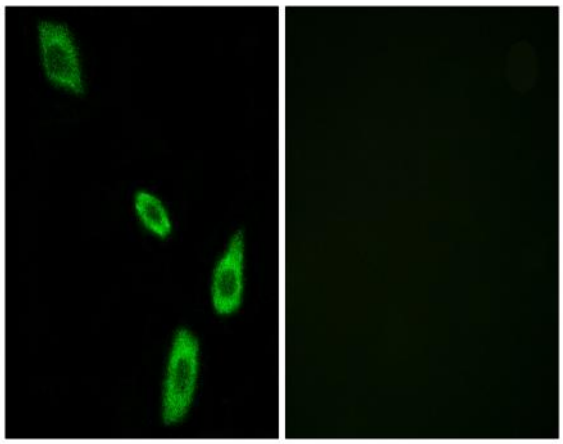
Catalog No :	YT0356
Reactivity :	Human;Mouse;Rat
Applications :	WB;IF;ELISA
Target :	AR-α1B
Fields :	>>Calcium signaling pathway;>>cGMP-PKG signaling pathway;>>Neuroactive ligand-receptor interaction;>>Adrenergic signaling in cardiomyocytes;>>Vascular smooth muscle contraction;>>Salivary secretion
Gene Name :	ADRA1B
Protein Name :	Alpha-1B adrenergic receptor
Human Gene Id :	147
Human Swiss Prot No :	P35368
Mouse Swiss Prot No :	P97717
Rat Swiss Prot No :	P15823
Immunogen :	The antiserum was produced against synthesized peptide derived from human ADRA1B. AA range:431-480
Specificity :	AR-α1B Polyclonal Antibody detects endogenous levels of AR-α1B protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	60kD
Cell Pathway :	Calcium;Neuroactive ligand-receptor interaction;Vascular smooth muscle contraction;
Background :	Alpha-1-adrenergic receptors (alpha-1-ARs) are members of the G protein-coupled receptor superfamily. They activate mitogenic responses and regulate growth and proliferation of many cells. There are 3 alpha-1-AR subtypes: alpha-1A, -1B and -1D, all of which signal through the Gq/11 family of G-proteins and different subtypes show different patterns of activation. This gene encodes alpha-1B-adrenergic receptor, which induces neoplastic transformation when transfected into NIH 3T3 fibroblasts and other cell lines. Thus, this normal cellular gene is identified as a protooncogene. This gene comprises 2 exons and a single large intron of at least 20 kb that interrupts the coding region. [provided by RefSeq, Jul 2008],
Function :	function:This alpha-adrenergic receptor mediates its action by association with G proteins that activate a phosphatidylinositol-calcium second messenger system.,similarity:Belongs to the G-protein coupled receptor 1 family.,
Subcellular Location :	Nucleus membrane; Multi-pass membrane protein. Cell membrane ; Multi-pass membrane protein . Cytoplasm . Membrane, caveola . Location at the nuclear membrane facilitates heterooligomerization and regulates ERK-mediated signaling in cardiac myocytes. signaling in cardiac myocytes. Colocalizes with GNAQ, PLCB1 as well as LAP2 at the nuclear membrane of cardiac myocytes.
Expression :	Brain,

Products Images



Western Blot analysis of JK cells using AR-α1B Polyclonal Antibody



Immunofluorescence analysis of LOVO cells, using ADRA1B Antibody. The picture on the right is blocked with the synthesized peptide.