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Datasheet for ABIN2783190
anti-Arrestin 3 antibody (Middle Region)

4 Images

Overview

Quantity:	100 µL
Target:	Arrestin 3 (ARRB2)
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Pig, Dog, Horse, Cow, Rabbit, Zebrafish (Danio rerio), Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Arrestin 3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human ARRB2
Sequence:	RLVIRKVQFA PEKPGPQPSA ETTRHFLMSD RSLHLEASLD KELYYHGEPL
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 86%, Horse: 100%, Human: 100%, Mouse: 93%, Pig: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 93%
Characteristics:	This is a rabbit polyclonal antibody against ARRB2. It was validated on Western Blot and immunohistochemistry.
Purification:	Affinity Purified

Target Details

Target:	Arrestin 3 (ARRB2)
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Target Details

Alternative Name: [ARRB2 \(ARRB2 Products\)](#)

Background: Members of arrestin/beta-arrestin protein family are thought to participate in agonist-mediated desensitization of G-protein-coupled receptors and cause specific dampening of cellular responses to stimuli such as hormones, neurotransmitters, or sensory signals. ARRB2, like arrestin beta 1, was shown to inhibit beta-adrenergic receptor function in vitro. It is expressed at high levels in the central nervous system and may play a role in the regulation of synaptic receptors. Besides the brain, a cDNA for arrestin beta 2 was isolated from thyroid gland, and thus it may also be involved in hormone-specific desensitization of TSH receptors. Members of arrestin/beta-arrestin protein family are thought to participate in agonist-mediated desensitization of G-protein-coupled receptors and cause specific dampening of cellular responses to stimuli such as hormones, neurotransmitters, or sensory signals. Arrestin beta 2, like arrestin beta 1, was shown to inhibit beta-adrenergic receptor function in vitro. It is expressed at high levels in the central nervous system and may play a role in the regulation of synaptic receptors. Besides the brain, a cDNA for arrestin beta 2 was isolated from thyroid gland, and thus it may also be involved in hormone-specific desensitization of TSH receptors. Multiple alternatively spliced transcript variants have been found for this gene, but the full-length nature of some variants has not been defined.

Alias Symbols: ARB2, ARR2, DKFZp686L0365, BARR2

Protein Interaction Partner: UBC, SRC, MAPK9, INSR, AKT1, USP33, ADRB2, TBXA2R, CYTH1, PTGDS, BAI1, LIMK1, CFL1, CSK, AGTR1, MAP2K4, MAPK10, MAP3K5, GCG, NFKBIA, MDM2, IGF1R, CLTC, ADRB1, HIPK3, EDNRA, gag-pol, ARRDC3, ARRDC4, SIRT1, PDE4D, Mlnr, Trhr, C5AR1, SLC9A5, AP2M1, HCRTR1, F

Protein Size: 409

Molecular Weight: 46 kDa

Gene ID: 409

NCBI Accession: [NM_199004, NP_945355](#)

UniProt: [P32121](#)

Pathways: [Intracellular Steroid Hormone Receptor Signaling Pathway](#), [Regulation of Intracellular Steroid Hormone Receptor Signaling](#), [cAMP Metabolic Process](#), [Myometrial Relaxation and Contraction](#), [Regulation of Leukocyte Mediated Immunity](#), [Synaptic Membrane](#), [Regulation of G-Protein Coupled Receptor Protein Signaling](#), [CXCR4-mediated Signaling Events](#), [Phototransduction](#), [Thromboxane A2 Receptor Signaling](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 409 AA

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: Lot specific

Buffer: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

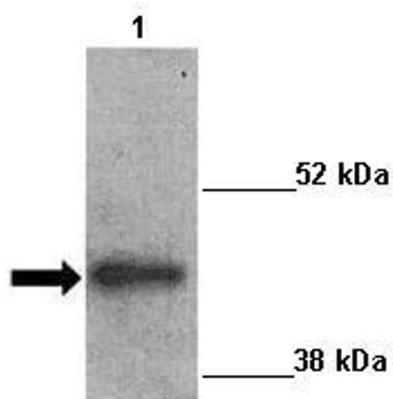
Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -20 °C

Storage Comment: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

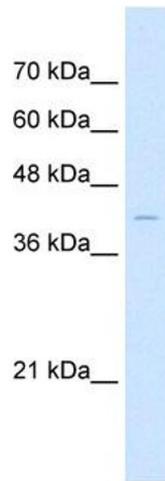
Images

BETA-ARRESTIN



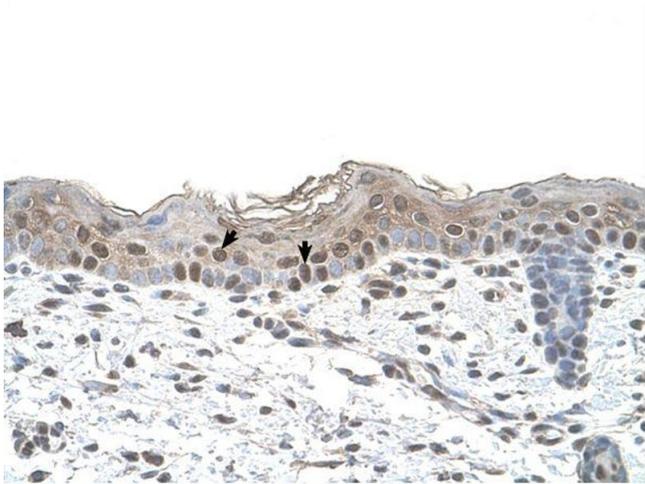
Western Blotting

Image 1. Sample Type : Lane 1: 20ug mouse left ventricle heart lysate Primary Antibody Dilution : 1:1000 Secondary Antibody: Anti-rabbit-HRP Secondary Antibody Dilution: 1:5000 Color/Signal Descriptions: ARRB2 Gene Name: Kathleen Gabrielson Submitted by:



Western Blotting

Image 2. Sample Type: HepG2 cell lysate Antibody concentration: 1.0 ug/ml Gel concentration: 12%. ARR2 is supported by BioGPS gene expression data to be expressed in HepG2



Immunohistochemistry

Image 3. IHC Information: Human skin.

Antibody concentration: 4.0-8.0 ug/ml.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN2783190.