Datasheet for ABIN3043990

anti-beta Arrestin 1 antibody (N-Term)

2 Images

Go to Product page

Overview

Quantity:	100 µg
Target:	beta Arrestin 1 (ARRB1)
Binding Specificity:	AA 82-103, N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This beta Arrestin 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-beta Arrestin 1/ARRB1 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human beta Arrestin 1, identical to the related rat and mouse sequences.
Sequence:	ANVQSFPPAP EDKKPLTRLQ ER
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-beta Arrestin 1/ARRB1 Antibody (ABIN3043990). Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	beta Arrestin 1 (ARRB1)
Alternative Name:	ARRB1 (ARRB1 Products)
Background:	Synonyms: Beta-arrestin-1;Arrestin beta-1;ARRB1;ARR1; Background: Arrestin, beta 1, also known as ARRB1, is a protein which in humans is encoded by the ARRB1 gene. Members of arrestin/beta-arrestin protein family are though 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. By fluorescence in situ hybridization, this gene is mapped to 11q13.4. Arrestin beta 1 is a cytosolic protein and acts as a cofactor in the beta-adrenergic receptor kinase (BARK) mediated desensitization of beta-adrenergic receptors. Besides the central nervous system, it is expressed at high levels in peripheral blood leukocytes, and thus the BARK/beta-arrestin system is believed to play a major role in regulating receptor-mediated immune functions. Sequence Similarities: Belongs to the arrestin family.
Molecular Weight:	18 kDa
UniProt:	P49407
Pathways:	Positive Regulation of Peptide Hormone Secretion, Nuclear Hormone Receptor Binding, cAMP Metabolic Process, Myometrial Relaxation and Contraction, Synaptic Membrane, Regulation of G-Protein Coupled Receptor Protein Signaling, Phototransduction

Application Details

Application Notes:	Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human, Rat, Mouse Western blot, 0.1-0.5 µg/mL, Human, Rat, Mouse 1. Buchanan, F. G., Gorden, D. L., Matta, P., Shi, Q., Matrisian, L. M., DuBois, R. N. Role of beta-arrestin 1 in the metastatic progression of colorectal cancer. Proc. Nat. Acad. Sci. 103: 1492-1497, 2006. 2. Nelson, C. D., Perry, S. J., Regier, D. S., Prescott, S. M., Topham, M. K., Lefkowitz, R. J.Targeting of diacylglycerol degradation to M1 muscarinic receptors by beta-arrestins. Science 315: 663-666, 2007.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

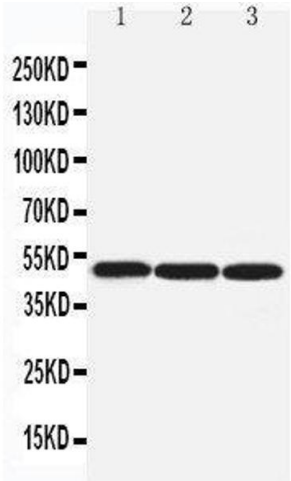
Application Details

Restrictions:	For Research Use only

Handling

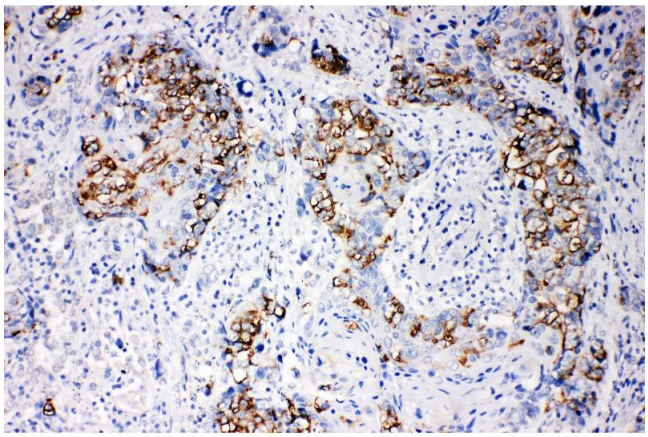
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Thimerosal (Merthiolate) and Sodium azide: POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Expiry Date:	12 months

Images



Western Blotting

Image 1. Anti-beta Arrestin 1 antibody, Western blotting Lane 1: Rat Lung Tissue Lysate Lane 2: Rat Skeletal Muscle Tissue Lysate Lane 3: SW620 Cell Lysate



Immunohistochemistry

Image 2. Anti-beta Arrestin 1 antibody, IHC(P) IHC(P): Human Mammary Cancer Tissue