

Datasheet for ABIN1048318

anti-beta 2 Adrenergic Receptor antibody (Transmembrane Domain)[Go to Product page](#)**1** Image

Overview

Quantity:	50 µg
Target:	beta 2 Adrenergic Receptor (ADRB2)
Binding Specificity:	Transmembrane Domain
Reactivity:	Human, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This beta 2 Adrenergic Receptor antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 16 amino acid peptide from 5th transmembrane domain of human ADRB2. Percent identity with other species by BLAST analysis: Human, Chimpanzee, Gorilla, Monkey (100%), Pufferfish, Zebrafish, Stickleback (94%), Marmoset, Mouse, Rat, Hamster (88%), Bovine, Dog, Cat, Elephant, Pig, Guinea pig, Xenopus (81%). Type of Immunogen: Synthetic peptide
Specificity:	Human ADRB2. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Predicted Reactivity:	Percent identity with other species by BLAST analysis: Human, Chimpanzee, Gorilla, Monkey (100%) Pufferfish, Zebrafish, Stickleback (94%) Marmoset, Mouse, Rat, Hamster (88%) Bovine,

Product Details

Dog, Cat, Elephant, Pig, Guinea pig, Xenopus (81%).

Purification: Immunoaffinity purified

Target Details

Target: beta 2 Adrenergic Receptor (ADRB2)

Alternative Name: ADRB2 ([ADRB2 Products](#))

Background: Name/Gene ID: ADRB2
Subfamily: Adrenergic
Family: GPCR

Synonyms: ADRB2, ADRB2R, Adrenoceptor beta 2, surface, ADRBR, B2AR, Beta-2 adrenoceptor, Beta-2 adrenergic receptor, Beta-2 adrenoreceptor, BETA2AR, BAR, Adrenergic beta-2 receptor, Catecholamine receptor

Gene ID: 154

Pathways: [cAMP Metabolic Process](#), [Synaptic Membrane](#), [Regulation of G-Protein Coupled Receptor Protein Signaling](#), [Brown Fat Cell Differentiation](#)

Application Details

Application Notes: Approved: IHC, IHC-P (17 - 26 µg/mL)

Comment: Target Species of Antibody: Human

Assay Procedure: **The IHC-pro Immunohistochemistry Protocol**

Tissue Preparation

Formalin fixation and embedding in paraffin wax

Tissue Sectioning

Make 4-µm sections and place on pre-cleaned and charged microscope slides.

Heat in a tissue-drying oven for 45 minutes at 60°C

Deparaffinization

Wash slides in 3 changes of xylene – 5 minutes each at room temperature.

Rehydration

Wash slides in 3 changes of 100% alcohol – 3 minutes each at room temperature.

Wash slides in 2 changes of 95% alcohol – 3 minutes each at room temperature.

Wash slides in 1 change of 80% alcohol – 3 minutes at room temperature.

Rinse slides in gentle running distilled water – 5 minutes at room temperature.

Antigen retrieval

Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes

Remove from heat and let stand at room temperature in buffer - 20 minutes

Rinse in 1X TBS with Tween (TBST) – 1 minute at room temperature.

Immunostaining

Do not allow tissues to dry at any time during the staining procedure.

Apply a universal protein block – 20 minutes at room temperature.

Drain protein block from slides, apply diluted primary antibody – 45 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply a biotinylated secondary antibody (specific to the host of the primary antibody) - 30 minutes at room temperature.

Rinse slides 1X TBST – 1 minute at room temperature.

Apply alkaline phosphatase streptavidin – 30 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply alkaline phosphatase chromogen substrate – 30 minutes at room temperature.

Wash slides in distilled water – 1 minute at room temperature.

Dehydrate

This method should only be used if the chromogen substrate is alcohol insoluble.

Wash slides in 2 changes of 80% alcohol – 1 minute each at room temperature.

Wash slides in 2 changes of 95% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of 100% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of xylene – 1 minute each at room temperature.

Apply coverslip

Restrictions:	For Research Use only
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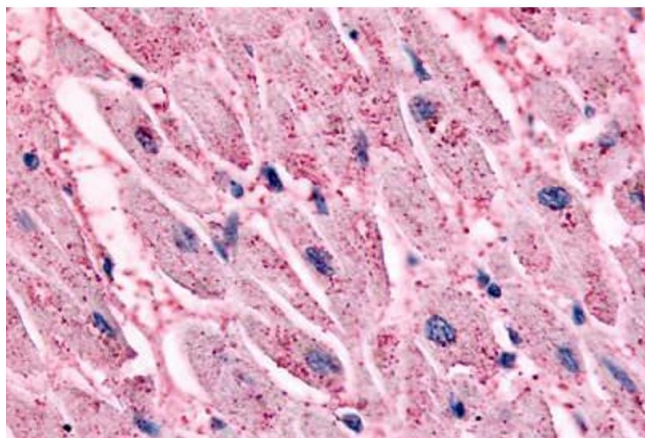
Handling

Format:	Liquid
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Handling

Concentration:	Lot specific
Buffer:	PBS, less than 0.1 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze-thaw cycles.
Expiry Date:	12 months

Images



Immunohistochemistry

Image 1. Anti-ADRB2 antibody ABIN1048318 IHC staining of human heart, cardiac myocytes. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.