

Datasheet for ABIN1048315

anti-ADRA2C antibody (Extracellular Domain)



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1 Image

Overview

Quantity:	50 µg
Target:	ADRA2C
Binding Specificity:	Extracellular Domain
Reactivity:	Human, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ADRA2C antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 18 amino acid peptide from 2nd extracellular domain of human ADRA2C. Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Monkey (100%), Mouse, Rat, Panda, Bovine, Dog, Guinea pig (94%), Hamster (89%). Type of Immunogen: Synthetic peptide
Specificity:	Human ADRA2C. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Predicted Reactivity:	Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Monkey (100%) Mouse, Rat, Panda, Bovine, Dog, Guinea pig (94%) Hamster (89%).
Purification:	Immunoaffinity purified

Target Details

Target:	ADRA2C
Alternative Name:	ADRA2C (ADRA2C Products)
Background:	<p>Name/Gene ID: ADRA2C</p> <p>Subfamily: Adrenergic</p> <p>Family: GPCR</p> <p>Synonyms: ADRA2C, ADRA2RL2, ADRARL2, Alpha-2C adrenergic receptor, Alpha-2c-2 adrenergic receptor, ADRA2L2, Adrenoceptor alpha 2C, Alpha-2C-adrenergic receptor, Alpha-2C-AR, Alpha-2CAR, Alpha-2C adrenoceptor, Alpha-2C adrenoreceptor, Alpha2c, ALPHA2CAR, Alpha 2c, Alpha2-AR-C4, Alpha2cii-adrenergic receptor</p>
Gene ID:	152
Pathways:	EGFR Signaling Pathway , cAMP Metabolic Process

Application Details

Application Notes:	Approved: IHC, IHC-P (15 - 30 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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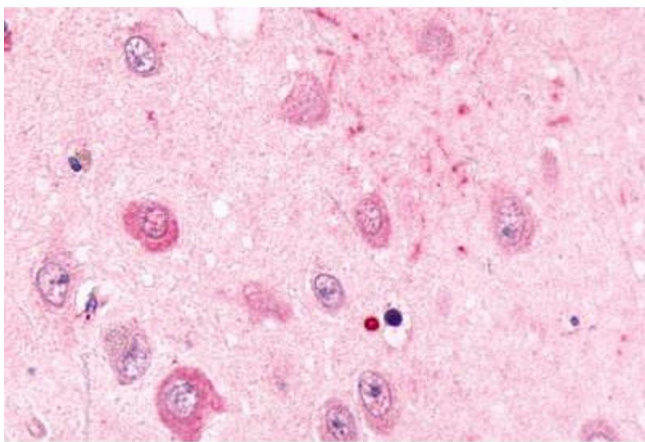
Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	PBS, less than 0.1 % sodium azide.
Preservative:	Sodium azide

Handling

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-ADRA2C antibody ABIN1048315 IHC staining of human brain, neurons of area ca1. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.