

Datasheet for ABIN1048308

**anti-alpha 1 Adrenergic Receptor antibody (Cytoplasmic Domain)**[Go to Product page](#)**1** Image

## Overview

Quantity:	50 µg
Target:	alpha 1 Adrenergic Receptor (ADRA1A)
Binding Specificity:	Cytoplasmic Domain
Reactivity:	Human, Rat, Mouse, Cow, Dog, Rabbit, Monkey, Horse, Sheep, Hamster, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This alpha 1 Adrenergic Receptor antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

## Product Details

Brand:	IHC-plus™
Immunogen:	<p>Synthetic 16 amino acid peptide from 3rd cytoplasmic domain of human ADRA1A. Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Monkey, Marmoset, Mouse, Rat, Sheep, Bovine, Dog, Hamster, Elephant, Panda, Horse, Rabbit, Pig (100%), Bat, Guinea pig (94%), Opossum, Platypus (88%).</p> <p>Type of Immunogen: Synthetic peptide</p>
Specificity:	Human ADRA1A. 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,

## Product Details

Marmoset, Mouse, Rat, Sheep, Bovine, Dog, Hamster, Elephant, Panda, Horse, Rabbit, Pig (100%) Bat, Guinea pig (94%) Opossum, Platypus (88%).

Purification: Immunoaffinity purified

## Target Details

Target: alpha 1 Adrenergic Receptor (ADRA1A)

Alternative Name: ADRA1A ([ADRA1A Products](#))

Background: Name/Gene ID: ADRA1A  
Subfamily: Adrenergic  
Family: GPCR

Synonyms: ADRA1A, ADRA1L1, Adrenergic alpha 1c receptor, Alpha 1c adrenoceptor, Alpha-adrenergic receptor 1c, ADRA1C, Adrenoceptor alpha 1A, Alpha-1A adrenoceptor, Alpha-1A adrenoreceptor, Alpha-1A adrenergic receptor, Alpha-1C adrenergic receptor, ALPHA1AAR, Alpha1C-AR

Gene ID: 148

Pathways: [AMPK Signaling](#)

## Application Details

Application Notes: Approved: ICC, IHC, IHC-P (3 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

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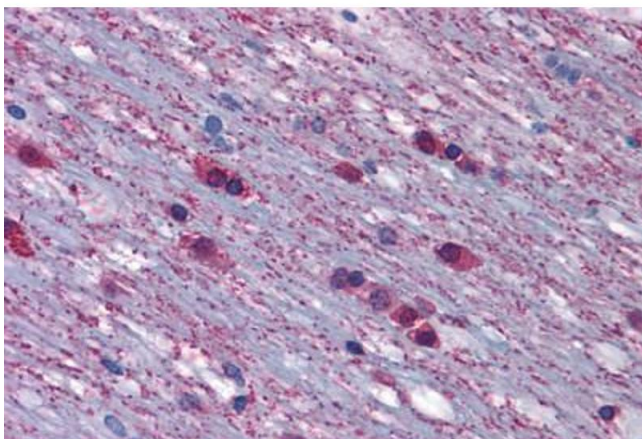
Restrictions:

For Research Use only

## Handling

Format:	Liquid
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-ADRA1A antibody ABIN1048308 IHC staining of human brain. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.