

Rabbit Anti-ADRA2 antibody

SL1062R

Product Name ADRA2

Chinese Name ADRA2 肾上腺素能受体 2 抗体

Alias alpha-2A adrenergic receptor; alpha 2a Adrenergic Receptor; ADRA2A; ADRA2; ADRA2R; ADRAR; ALPHA2AAR; ZNF32; RATRG20; RG20; Adrenergic alpha 2A receptor; Alpha 2AAR subtype C10; OTTHUMP00000058849; ADA2A_HUMAN; Alpha-2A adrenergic receptor; Alpha-2 adrenergic receptor subtype C10; Alpha-2A adrenoreceptor; Alpha-2A adrenoceptor; Alpha-2AAR.

Research Area Neurobiology Growth factors and hormones The cell membrane 受体 G protein-coupled receptor G protein signal

Immunogen Species Rabbit

Clonality Polyclonal

React Species Rat, (predicted: Human, Mouse, Pig, Cow, Rabbit,)
IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)

Applications not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 50kDa

Cellular localization The cell membrane

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human ADRA2: 385-450/450 <Cytoplasmic>

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed

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Alpha-2-adrenergic receptors are members of the G protein-coupled receptor superfamily. They include 3 highly homologous subtypes: alpha 2A, alpha 2B, and alpha 2C. These receptors have a critical role in regulating neurotransmitter release from sympathetic nerves and from adrenergic neurons in the central nervous system. Studies in mouse revealed that both the alpha 2A and alpha 2C subtypes were required for normal presynaptic control of transmitter release from sympathetic nerves in the heart and from central noradrenergic neurons; the alpha 2A subtype inhibited transmitter release at high stimulation frequencies, whereas the alpha 2C subtype modulated neurotransmission at lower levels of nerve activity. This gene encodes alpha 2A subtype and it contains no introns in either its coding or untranslated sequences. [provided by RefSeq].

Function:

Alpha-2 adrenergic receptors mediate the catecholamine-induced inhibition of adenylate cyclase through the action of G proteins. The rank order of potency for agonists of this receptor is oxymetazoline > clonidine > epinephrine > norepinephrine > phenylephrine > dopamine > p-synephrine > p-tyramine > serotonin = p-octopamine. For antagonists, the rank order is yohimbine > phentolamine = mianserine > chlorpromazine = spiperone = prazosin > propanolol > alprenolol = pindolol.

**Product
Detail**

Subcellular Location:

Cell membrane.

Similarity:

Belongs to the G-protein coupled receptor 1 family. Adrenergic receptor subfamily. ADRA2A sub-subfamily.

SWISS:

P08913

Gene ID:

150

Database links:

[Entrez Gene: 150](#) Human

[Entrez Gene: 11551](#) Mouse

[Entrez Gene: 25083](#) Rat



[Entrez Gene: 266750](#) Zebrafish

[Omim: 104210](#) Human

[SwissProt: P08913](#) Human

[SwissProt: Q01338](#) Mouse

[SwissProt: P22909](#) Rat

[SwissProt: Q1L8Y8](#) Zebrafish

[SwissProt: Q90WY4](#) Zebrafish

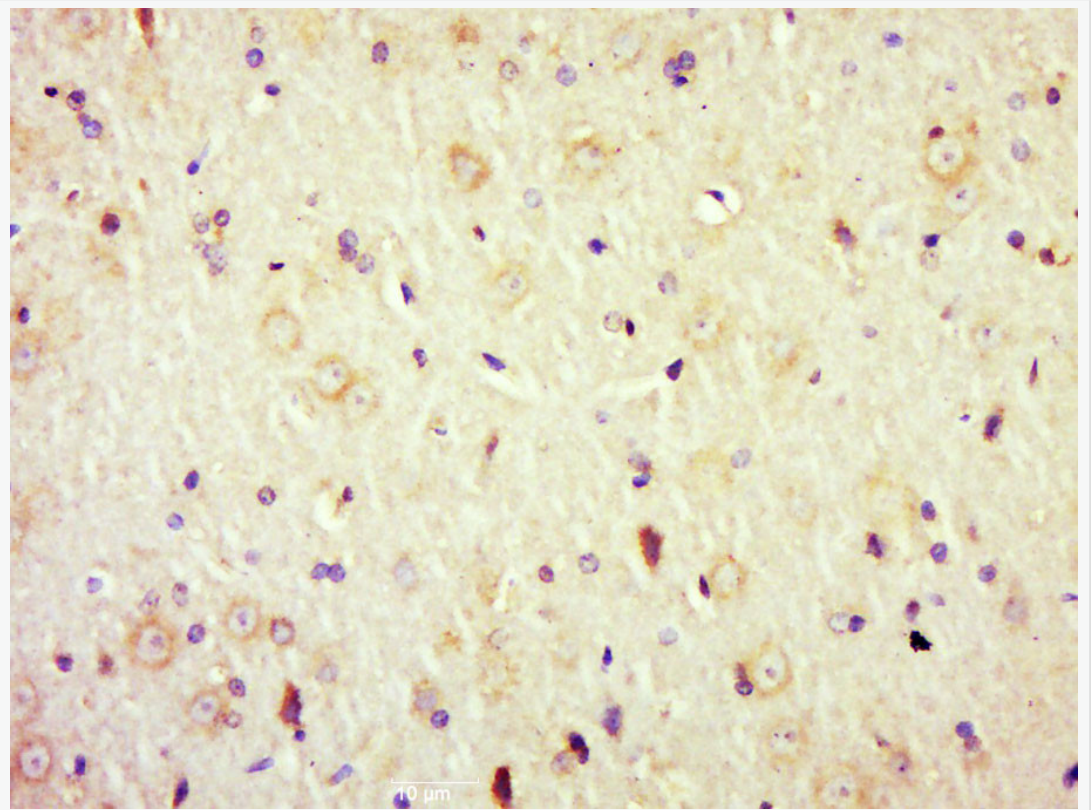
[Unigene: 249159](#) Human

[Unigene: 235195](#) Mouse

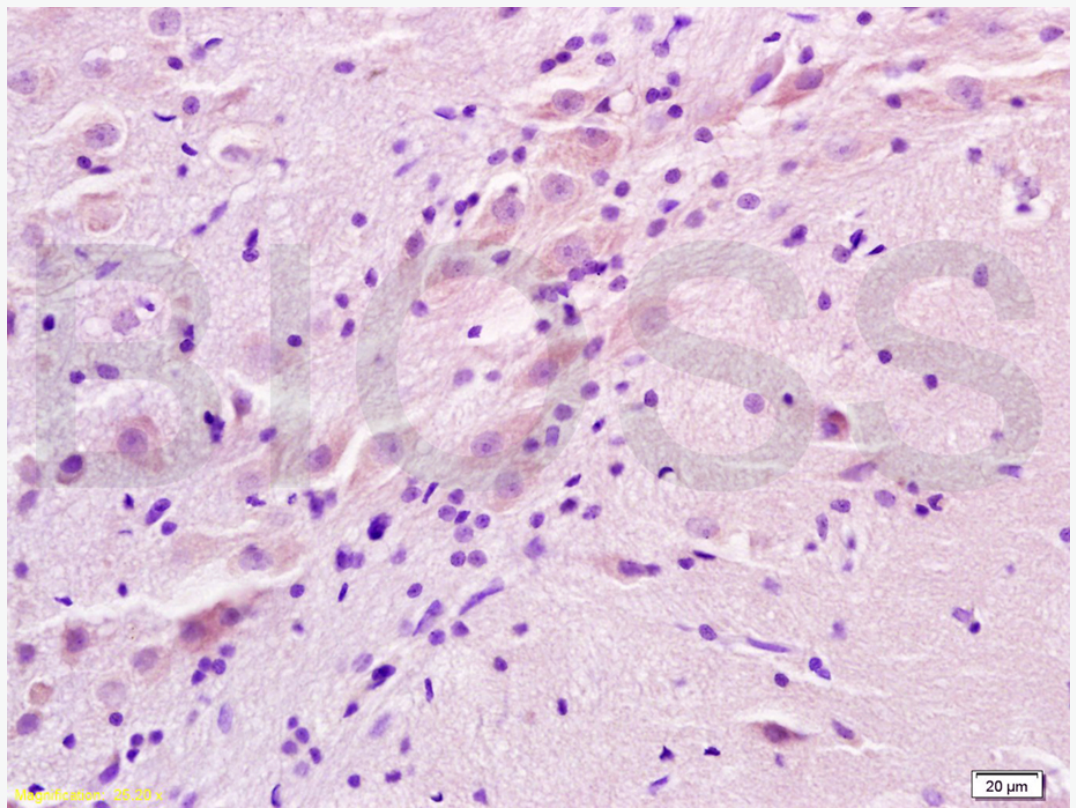
[Unigene: 170171](#) Rat

[Unigene: 30878](#) Zebrafish

**Product
Picture**



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ADRA2) Polyclonal Antibody, Unconjugated (SL1062R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block
endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer
(normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-ADRA2 Polyclonal Antibody, Unconjugated(SL1062R) 1:200,
overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and
DAB(C-0010) staining