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## ADRA2 Rabbit pAb

Catalog Number: bs-1062R

Target Protein: ADRA2

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500)

Reactivity: Rat (predicted:Human, Mouse, Rabbit, Pig, Cow)

Predicted MW: 50 kDa

Entrez Gene: 150

Swiss Prot: P08913

Source: KLH conjugated synthetic peptide derived from human ADRA2: 385-450/450.

Purification: affinity purified by Protein A

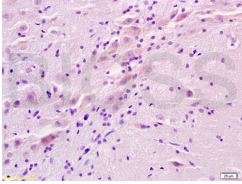
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

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

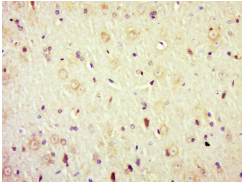
**Background:** Alpha-2-adrenergic receptors are members of the G protein-coupled receptor superfamily. They include 3 highly homologous subtypes: alpha 2A, alpha 2B, and alpha 2C. These receptors have a critical role in regulating neurotransmitter release from sympathetic nerves and from adrenergic 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].

### VALIDATION IMAGES

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Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer ( 0.01M, 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(bs-1062R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



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 (bs-1062R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

## PRODUCT SPECIFIC PUBLICATIONS

**[IF=3.197]** Shunsuke Kawanabe. et al. Upregulations of  $\alpha 1$  adrenergic receptors and noradrenaline synthases in the medial prefrontal cortex are associated with emotional and cognitive dysregulation induced by post-weaning social isolation in male rats. NEUROSCI LETT. 2023 Feb;797:137071 WB ; Rat . 36642239

**[IF=2.388]** Sun Y et al. Changes in TRPV1 expression in the POA of ovariectomized rats regulated by NE-dependent  $\alpha 2$ -ADR may be involved in hot flashes. Ann Anat. 2020 Nov;232:151565. IHC ; Rat . 32603826

**[IF=2.388]** Yanrong Sun et al. Changes in TRPV1 expression in the POA of ovariectomized rats regulated by NE-dependent  $\alpha 2$ -ADR may be involved in hot flashes. Ann Anat . 2020 Nov;232:151565. WB ; rat . 32603826

**[IF=2.2]** Zhang Xia-wei. et al. Dexmedetomidine modulates neuronal activity of horizontal limbs of diagonal band via  $\alpha 2$  adrenergic receptor in mice. BMC ANESTHESIOLOGY. 2023 Dec;23(1):1-9 IHC ; Mouse . 37784079