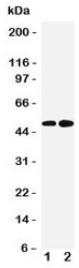
Alpha 2a Adrenergic Receptor Antibody (R31320)

Catalog No.	Formulation	Size
R31320	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P08913
Applications	Western blot: 0.5-1ug/ml
Limitations	This Alpha 2a Adrenergic Receptor antibody is available for research use only.



Western blot testing of Alpha 2a Adrenergic Receptor antibody and Lane 1: human HeLa; 2: human PANC-1 cell lysate. Predicted molecular weight ~49 kDa.

Description

The alpha 2A adrenergic receptor is a member of the G protein-coupled receptor superfamily which include three highly homologous subtypes: alpha2A, alpha2B, and alpha2C. 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 alpha2A and alpha2C subtypes were required for normal presynaptic control of transmitter release from sympathetic nerves in the heart and from central noradrenergic neurons; the alpha2A subtype inhibited transmitter release at high stimulation frequencies, whereas the alpha2C subtype modulated neurotransmission at lower levels of nerve activity. This gene encodes alpha2A subtype and it contains no introns in either its coding or untranslated

sequences. Alpha2 adrenergic receptors mediate the catecholamine-induced inhibition of adenylate cyclase through the action of G proteins.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Alpha 2a Adrenergic Receptor antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the middle region of human alpha 2a Adrenergic Receptor (ILVYVRIYQIAKRRTR) was used as the immunogen for this alpha 2a Adrenergic Receptor antibody (100% homologous in human, mouse and rat).

Storage

After reconstitution, the Alpha 2a Adrenergic Receptor antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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