Alpha-2C Adrenergic Receptor Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 56529 (clone S330A-80)
Size: 100ug in PBS (1mg/ml), pH 7.4, 50% glycerol, 0.09% sodium azide. Purified by Protein G affinity chromatography.

BACKGROUND

The alpha-2C adrenergic receptor (also known as ADRA2C) controls the release of neurotransmitters from central adrenergic neurons and from sympathetic nerves in the heart. There are three subtypes of the alpha-2 adrenergic receptor: alpha-2A, alpha-2B, and alpha-2C. The human alpha-2A subtype undergoes phosphorylation and short-term desensitization, whereas the human alpha-2C subtype is not phosphorylated and does not desensitize. The human alpha-2C subtype, however, does undergo arrestin-dependent internalization. In contrast to alpha-2A and alpha-2B adrenergic receptors from several species, the human alpha-2C receptor does not appear to down-regulate in response to agonist treatment in transfected cell culture systems.

SPECIFICATION SUMMARY

Antigen: Synthetic peptide corresponding to aa 442-462 (QDFRRSFFKHILFRRRRRGFQ), the cytoplasmic C-terminus, of human Alpha-2C adrenergic receptor (accession no. P18825).
Host Species: Mouse
Antibody Class: IgG1

SPECIFICITY

This antibody recognizes human and mouse Alpha-2C adrenergic receptor.

APPLICATIONS

Immunoblotting: use at 1ug/ml. Predicted molecular weight is ~50kDa or larger (possibly due to dimerization).
These are recommended concentrations. Endusers should determine optimal concentrations for their applications.

DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20^{o}C. Avoid repeated freeze-thaw cycles.

For in vitro investigational use only. Not intended for diagnostic or therapeutic applications.

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