



Monoclonal Anti-human CRHR-1 Antibody

ORDERING INFORMATION

Catalog Number: MAB3930

Clone: 343919

Lot Number: XON01

Size: 100 µg

Formulation: 0.2 µm filtered solution in PBS with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human CRHR-1

Immunogen: NS0 cells transfected with human CRHR-1

Ig class: mouse IgG_{2a}

Recommended Applications:

Flow cytometry
Immunohistochemistry

Background

Corticotrophin-Releasing Hormone Receptor 1 (CRHR-1), also known as CRFR-1, is a 7TM protein that belongs to the G protein-coupled receptor family 2. CRHR-1 is expressed in the brain and adrenal gland where it mediates corticotropin-induced effects on anxiety, depression, and stress-associated pathologies. The immunogen for this antibody corresponds to one of the four alternately spliced forms and has a 29 amino acid deletion in the first cytoplasmic domain. Human CRHR-1 shares 97% amino acid sequence identity with mouse and rat CRHR-1.

Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with NS0 cells transfected with human CRHR-1 (Accession # Q76LL8). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 0.2 mL of PBS is used, the antibody concentration will be 500 µg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody detects CRHR-1 transfectants but not irrelevant transfectants.

Applications

Flow cytometry - This antibody was validated for flow cytometry using CRHR-1 transfectants and differentiated neural progenitors. Dilute this antibody to 25 µg/mL and add 10 µL of the diluted solution to 1 - 2.5 x 10⁵ cells in a total reaction volume not exceeding 200 µL. The binding of unlabeled monoclonal antibodies may be visualized by adding 10 µL of a 25 µg/mL stock solution of a secondary developing reagent such as goat anti-mouse IgG conjugated to a fluorochrome.

Immunohistochemistry - This antibody was used at a concentration of 25 µg/mL with appropriate secondary reagents to detect CRHR-1 in paraffin-embedded human placenta tissue sections. For chromogenic detection of labeling, the use of R&D Systems Cell and Tissue Staining Kits (CTS Series) is recommended.

For immunohistochemistry images, please refer to our website at <http://www.rndsystems.com/go/ihc>.

Optimal dilutions should be determined by each laboratory for each application.