

β2 Adrenergic receptor antibody (epitope affinity purified)

Quality Control Certificate of Analysis

Catalogue No.: A-β2AR-100

Unit Size: 100µl

Lot No: 1113-01

Background: The β2-adrenergic receptor (β2AR) is a G-protein coupled receptor that transmits extracellular signals to the intracellular environment. β2AR couples to G-proteins G_s and G_i sending modest inotropic signals via G_s and cardioprotective signals via G_i. This antibody is a polyclonal, anti-peptide antibody (IgG) to an extracellular, N-terminal sequence peculiar to β2AR (residues 15-30, mouse sequence). The antibody has been affinity purified on its epitope peptide and recognises β2AR exclusively. The epitope sequence, derived from mouse β2AR, is well conserved in human (15/16 residues identical) and rat (14/16 residues identical) β2AR. This antibody does not recognise β1AR or β3AR.

Description: Lyophilised **rabbit** polyclonal IgG - epitope affinity purified antibody specific for β2AR.

Immunogen: Synthetic peptide (CNGSRAPDHDVTQERDE) corresponding to amino acid residues 15-30 of murine β2-AR

Antibody Isotype: IgG (rabbit)

Antibody Purity: Epitope Affinity Purified

Specificity: The antibody recognises β2AR. Binding of the antibody to its target epitope is blocked in the presence of an epitope peptide.

Species Cross Reactivity: Ab tested against rat tissue, but epitope sequence is contained within β2AR from mouse, human and other mammalian species.

Vial Constituents: Lyophilised IgG formerly dissolved phosphate buffered saline pH 7.4 with 1% BSA, 20%v/v stabiliser solution, 0.05%NaN₃.

Storage Instructions: Lyophilised antibody is stable at 4°C when stored with desiccant. Reconstitute lyophilised powder with 100 µl of 18 MΩ H₂O. Aliquot and store frozen at -80°C for 1 year. Avoid freeze - thaw cycles.

Tested Applications: Western blot: 1:5000

