

## **β2** Adrenergic receptor antibody (epitope affinity purified)

**Quality Control Certificate of Analysis** 

Catalogue No.: A-B2AR-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  $\beta 2AR$ .

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  $\beta$ 2AR. Binding of the antibody to its target epitope is blocked in the presence of an epitope peptide.

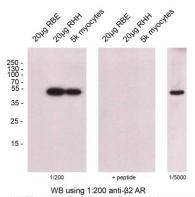
Species Cross Reactivity: Ab tested against rat tissue, but epitope sequence is contained within  $\beta 2AR$  from mouse, human and other mammalian species.

**Vial Constituents:** Lyophilised IgG formerly dissolved phosphate buffered saline pH 7.4 with 1% BSA, 20%v/v stabiliser solution, 0.05%NaN<sub>3</sub>.

**Storage Instructions:** Lyophilised antibody is stable at 4°C when stored with desiccant. Reconstitute lyophilised powder with 100  $\mu$ l of 18 M $\Omega$  H $_2$ O. Aliquot and store frozen at -80°C for 1 year. Avoid freeze - thaw cycles.

Tested Applications: Western blot: 1:5000

Epitope - - - - - CNGSRAPD - HDVT - - - - β1-AR LLVLASPPASLLPPASEGSAPLS β2-AR SDFLLAPNGSRAPD - HDVTQERD β3-AR SLALWSDAPTLDPSAANTSGLPG



against 20µg of Rat Brain Extract, Rat Heart Homogenate and 5k Rat Cardiac Myocytes