**Product datasheet**

**Anti-beta 2 Adrenergic Receptor antibody** **ab13989**

- **Product name**: Anti-beta 2 Adrenergic Receptor antibody
- **Description**: Chicken polyclonal to beta 2 Adrenergic Receptor
- **Host species**: Chicken
- **Tested applications**: Suitable for: WB
- **Species reactivity**: Reacts with: Rat, Human
- **Immunogen**: Synthetic peptide:
  - DFRAFQELL LRRSSLKAYGN GYSSNGNTGE
  - QSGYHVEQEKE NKLLCEDLP GT EDFVGHQGTVP
  - SDNIDSQGRNCS T
  - , corresponding to amino acids 335-408 of Human beta 2 Adrenergic Receptor.
- **Form**: Liquid
- **Storage instructions**: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
- **Storage buffer**: Constituent: PBS
- **Purity**: Immunogen affinity purified
- **Clonality**: Polyclonal
- **Isotype**: IgY

### Overview

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<td>WB</td>
<td>1/500. Predicted molecular weight: 46.5 kDa.</td>
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Our Abpromise guarantee covers the use of **ab13989** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Beta-adrenergic receptors mediate the catecholamine-induced activation of adenylate cyclase through the action of G proteins. The beta-2-adrenergic receptor binds epinephrine with an approximately 30-fold greater affinity than it does norepinephrine.

Sequence similarities
Belongs to the G-protein coupled receptor 1 family. Adrenergic receptor subfamily. ADRB2 sub-subfamily.

Post-translational modifications
Palmitoylated; may reduce accessibility of Ser-345 and Ser-346 by anchoring Cys-341 to the plasma membrane. Agonist stimulation promotes depalmitoylation and further allows Ser-345 and Ser-346 phosphorylation.

Phosphorylated by PKA and BARK upon agonist stimulation, which mediates homologous desensitization of the receptor. PKA-mediated phosphorylation seems to facilitate phosphorylation by BARK. Phosphorylated upon DNA damage, probably by ATM or ATR.

Phosphorylation of Tyr-141 is induced by insulin and leads to supersensitization of the receptor. Ubiquitinated. Agonist-induced ubiquitination leads to sort internalized receptors to the lysosomes for degradation. Deubiquitination by USP20 and USP33, leads to ADRB2 recycling and resensitization after prolonged agonist stimulation. USP20 and USP33 are constitutively associated and are dissociated immediately after agonist stimulation.

Cellular localization
Cell membrane.

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