Product datasheet

Anti-Muscarinic Acetylcholine Receptor 2 antibody ab41168

Overview

Product name  Anti-Muscarinic Acetylcholine Receptor 2 antibody
Description  Rabbit polyclonal to Muscarinic Acetylcholine Receptor 2
Host species  Rabbit
Specificity  M2 Muscarinic Receptor (457-466): 100% M2 Muscarinic Receptor: 50% No cross reactivity with M1, M3, M4 and M5 Muscarinic Receptors.
Tested applications  Suitable for: WB, ICC/IF, ELISA
Species reactivity  Reacts with: Rat
Immunogen  Synthetic peptide corresponding to C-terminal region (Rat) covalently attached onto a carrier protein.
Positive control  PLP fixed rat brain section; whole rat brain homogenate.

Properties

Form  Liquid
Storage instructions  Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Purity  Whole antiserum
Clonality  Polyclonal
Isotype  IgG

Applications

Our Abpromise guarantee covers the use of ab41168 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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Application notes

ELISA: Use at an assay dependent dilution.
ICC/IF: 1/5000. Fix with PLP.

With this antibody, we have found that blocking with 5% goat or donkey serum significantly reduces background as compared to BSA or milk.

Not yet tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

Target

Function

The muscarinic acetylcholine receptor mediates various cellular responses, including inhibition of adenylate cyclase, breakdown of phosphoinositides and modulation of potassium channels through the action of G proteins. Primary transducing effect is adenylate cyclase inhibition.

Involvement in disease

Genetic variations in CHRM2 can influence susceptibility to major depressive disorder (MDD) [MIM:608516]. MDD is one of the most common psychiatric disorders. MDD is a complex trait characterized by one or more major depressive episodes without a history of manic, mixed, or hypomanic episodes. A major depressive episode is characterized by at least 2 weeks during which there is a new onset or clear worsening of either depressed mood or loss of interest or pleasure in nearly all activities. Four additional symptoms must also be present including changes in appetite, weight, sleep, and psychomotor activity; decreased energy; feelings of worthlessness or guilt; difficulty thinking, concentrating, or making decisions; or recurrent thoughts of death or suicidal ideation, plans, or attempts. The episode must be accompanied by distress or impairment in social, occupational, or other important areas of functioning.

Sequence similarities

Belongs to the G-protein coupled receptor 1 family. Muscarinic acetylcholine receptor subfamily. CHRM2 sub-subfamily.

Cellular localization


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