

Anti-Melanocortin receptor 4 MC4R Antibody

Catalog Number: A00619

About MC4R

The melanocortin-4 receptor (MC4R) is a member of the superfamily of seven transmembrane G-protein coupled receptors that are involved in multiple signal transduction pathways including the cAMP and MAPK signaling pathways. It is thought that the melanocortin system modulates energy expenditure and insulin sensitivity; activation of the MC4R results in the inhibition of c-Jun N-terminal kinase (JNK) activity and promotes insulin signaling. MC4R-null mice display maturity onset obesity characterized by hyperphagia, increased adiposity, hyperinsulinaemia and hyperleptinaemia, suggesting that like other obesity-linked genes such as FTO, PTER, and NPC1, MC4R is a potential candidate target for the treatment of obesity.

Overview

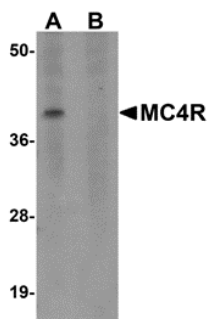
Product Name	Anti-Melanocortin receptor 4 MC4R Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Melanocortin receptor 4 MC4R Antibody (Catalog # A00619). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal Clone: SK7
Formulation	MC4R Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	MC4R antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	P32245

Technical Details

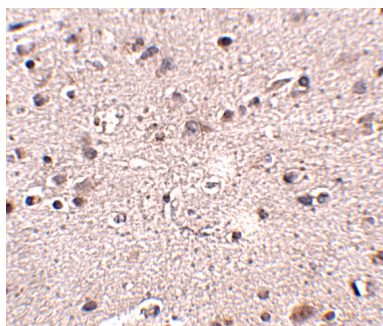
Immunogen	MC4R antibody was raised against a 19 amino acid synthetic peptide near the amino terminus of human MC4R. The immunogen is located within the first 50 amino acids of MC4R.
Predicted Reactive Species	Pig
Cross Reactivity	80 to 130 kDa bands can be detected, which may represent mature protein, precursor, and glycosylated TACE.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL

Purification	MC4R Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: MC4R antibody can be used for detection of MC4R by Western blot at 1 ug/mL. Antibody can also be used for immunohistochemistry starting at 2.5 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in rat samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

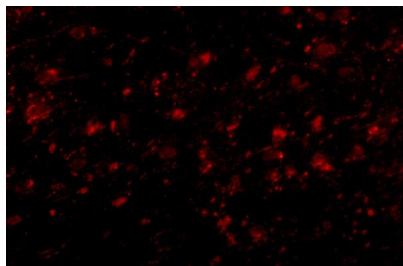
Anti-Melanocortin receptor 4 MC4R Antibody (A00619) Images



Western blot analysis of MC4R in rat brain tissue lysate with MC4R antibody at 1 ug/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of MC4R in human brain tissue with MC4R antibody at 2.5 ug/mL.



Immunofluorescence of MC4R in Human Brain cells with MC4R antibody at 20 ug/mL.

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