

Product datasheet for **TA306791**

MC4 Receptor (MC4R) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1 ug/mL, ICC: 2.5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	MC4R antibody was raised against a 19 amino acid peptide near the amino terminus of human MC4R.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	melanocortin 4 receptor
Database Link:	NP_005903 Entrez Gene 17202 Mouse Entrez Gene 25635 Rat Entrez Gene 4160 Human P32245

Background: 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.



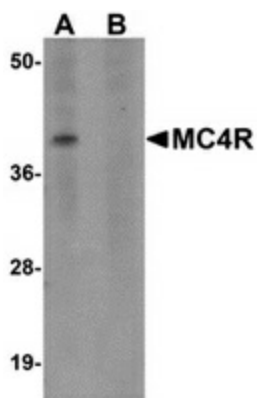
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Synonyms: MGC126851; MGC138197

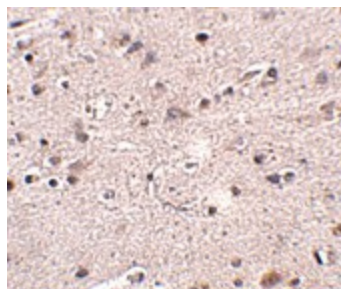
Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

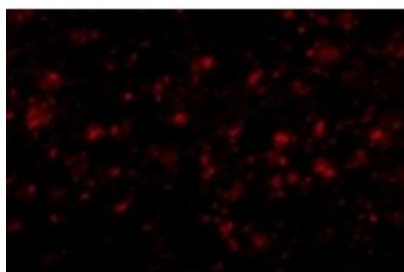
Product images:



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.