

Datasheet for ABIN500250  
**anti-MC4R antibody (N-Term)**[Go to Product page](#)

## 2 Images

## Overview

Quantity:	0.1 mg
Target:	MC4R
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MC4R antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

## Product Details

Immunogen:	MC4R antibody was raised against a 19 amino acid peptide near the amino terminus of human MC4R.
Isotype:	IgG
Specificity:	This antibody detects MC4-R.
Cross-Reactivity (Details):	Species reactivity (tested):Human, mouse, rat
Purification:	Peptide affinity chromatography

## Target Details

Target:	MC4R
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## Target Details

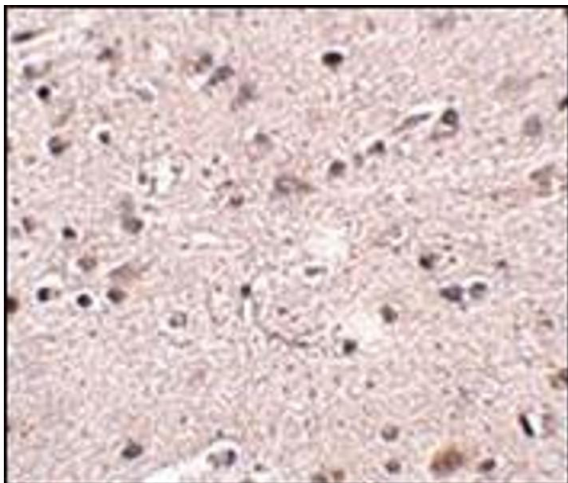
Alternative Name:	MC4-R ( <a href="#">MC4R Products</a> )
Background:	The melanocortin-4 receptor (MC4R) is a member of the superfamily of seven transmembrane G-protein coupled receptors that are involved in multiple signal transduction pathways including the cAMP and MAPK signaling pathways. It is thought 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.Synonyms: MC4R, Melanocortin receptor 4
Gene ID:	4160
NCBI Accession:	<a href="#">NP_005903</a>
UniProt:	<a href="#">P32245</a>
Pathways:	<a href="#">Hormone Transport</a> , <a href="#">cAMP Metabolic Process</a> , <a href="#">Feeding Behaviour</a>

## Application Details

Application Notes:	ELISA. Western blot: 1 - 2 µg/mL. Immunohistochemistry on paraffin sections. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

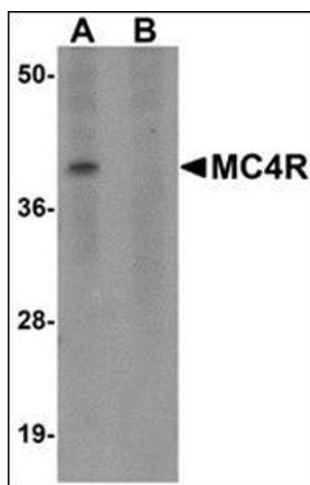
## Handling

Buffer:	PBS containing 0.02 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer.



#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Immunohistochemistry of MC4R in human brain tissue with this product at 2.5 µg/ml.



#### Western Blotting

**Image 2.** Western blot analysis of MC4R in rat brain tissue lysate with this product at 1 µg/ml in (A) the absence and (B) the presence of blocking peptide.