



Product datasheet

Anti-MC4-R antibody ab24233

★★★★★ [17 Abreviews](#) [20 References](#) [2 Images](#)

Overview

Product name	Anti-MC4-R antibody
Description	Rabbit polyclonal to MC4-R
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Rat, Human
Immunogen	Synthetic peptide corresponding to Mouse MC4-R aa 1-100 (N terminal). Database link: P56450
	 Run BLAST with  Run BLAST with

General notes

This antibody mainly detects an unglycosylated protein at 37kDa and a glycosylated protein at 55kDa.

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: Tris buffered saline, 50% Glycerol, 0.1% BSA
Purity	Protein A purified
Primary antibody notes	This antibody mainly detects an unglycosylated protein at 37kDa and a glycosylated protein at 55kDa.
Clonality	Polyclonal

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab24233 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (6)	Use a concentration of 2 µg/ml. Detects a band of approximately 37 kDa (predicted molecular weight: 37 kDa). A larger band is also detected at 55 kDa. This most likely represents the glycosylated form of the protein.
IHC-P	★★★★★ (1)	Use a concentration of 1 µg/ml.

Target

Function

Receptor specific to the heptapeptide core common to adrenocorticotrophic hormone and alpha-, beta-, and gamma-MSH. This receptor is mediated by G proteins that stimulate adenylate cyclase.

Tissue specificity

Brain, placental, and gut tissues.

Involvement in disease

Defects in MC4R are a cause of obesity (OBESITY) [MIM:601665]. It is a condition characterized by an increase of body weight beyond the limitation of skeletal and physical requirements, as the result of excessive accumulation of body fat.

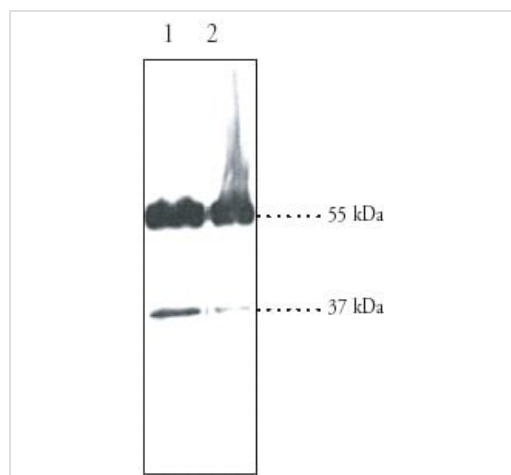
Sequence similarities

Belongs to the G-protein coupled receptor 1 family.

Cellular localization

Cell membrane.

Images



Western blot - Anti-MC4-R antibody (ab24233)

All lanes : Anti-MC4-R antibody (ab24233)

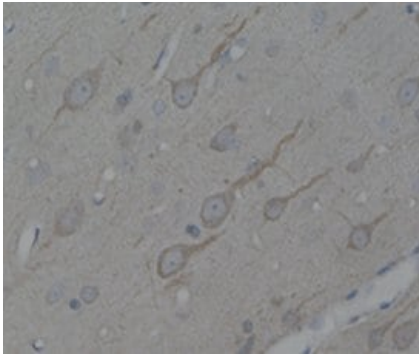
Lane 1 : Human cerebella cortex pellet.

Lane 2 : Human hippocampus homogenate.

Lysates/proteins at 30 µg per lane.

Predicted band size: 37 kDa

Additional bands at: 55 kDa (possible glycosylated form)



Immunoperoxidase staining of rat brain section with ab24233. Note the tadpole like staining of cortex neurons.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MC4-R antibody (ab24233)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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