

## Anti-MC4R Polyclonal Antibody

## Product Details

Ig Type:	IgG
Reactivity:	Mouse,Rat (predicted:Human)
Molecular Weight:	Theoretical: 37 kDa.
Purification:	Protein A purified

## Applications

Sample:	Lane 1: Mouse Kidney tissue lysates Lane 2: Rat Kidney tissue lysates
Verified Activity:	Primary: Anti-MC4R (TMAB-08655) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 37 kDa Observed band size: 37 kDa
Application:	WB,ELISA
Recommended	WB: 1:500-2000; ELISA: 1:5000-10000

## Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human MC4 Receptor
Antigen Species:	Human
Gene ID:	4160
Uniprot ID:	P32245

## Research Background

The melanocortin family comprises the Alpha-, Beta- and Gamma- melanocyte stimulating hormones (MSH) and adrenocorticotrophin. The receptors for these hormones are seven-transmembrane G protein-coupled proteins that activate adenylyl cyclase. Five melanocortin receptors have been cloned and shown to exhibit different affinities and patterns of expression. MC1-R (MSH-R) is expressed in melanocytes and corticoadrenal tissue. MC2-R is the ACTH receptor and is expressed primarily in the adrenal cortex. MC3-R has been found in specific regions of the brain and is also expressed in placenta and gut. MC4-R is expressed primarily in brain, while MC5-R is expressed at low levels in most tissues.

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