

Rabbit MC4R Polyclonal Antibody | anti-MC4R antibody

MC4R Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325588	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

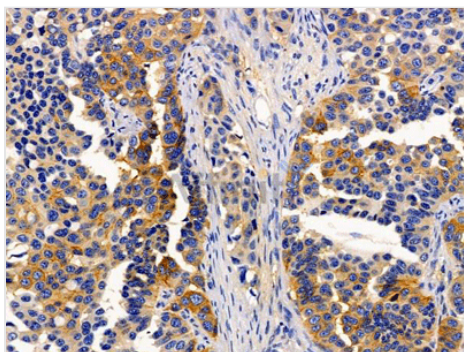
PRODUCT SYNONYMS

MC4R; Polyclonal Antibody; MC4R Antibody; MC4-R; MC4R_HUMAN; Melanocortin 4 receptor; Melanocortin receptor 4; MGC126851; MGC138197; anti-MC4R antibody

PRODUCT SPECIFICATIONS

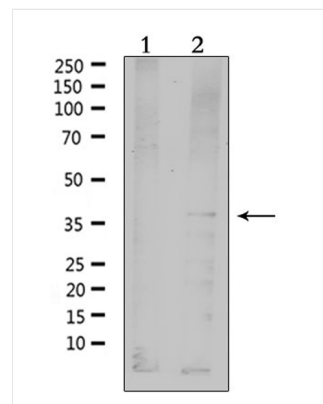
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	MC4R antibody detects endogenous levels of total MC4R
Purity/Purification	Peptide affinity purification
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	332
Applicable Applications for anti-MC4R antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human MC4R, corresponding to a region within C-terminal amino acids.
Conjugation	Unconjugated
Preparation and Storage	Store at -20°C. Stable for up to 12 months from date of receipt.

IMAGES



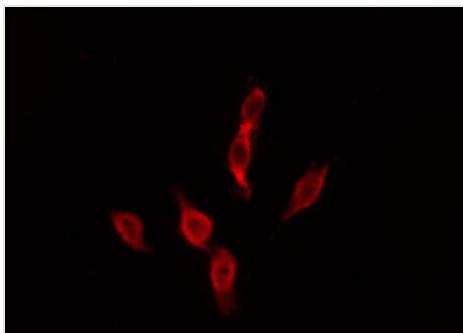
IHC (Immunohistochemistry)

AAA325588 at 1/100 staining Human lung cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from HepG2, using MC4R Antibody. Lane 1 was treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA325588 staining MCF7 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-MC4R antibody

Function: Receptor specific to the heptapeptide core common to adrenocorticotrophic hormone and alpha-, beta-, and gamma-MSH. Plays a central role in energy homeostasis and somatic growth. This receptor is mediated by G proteins that stimulate adenylate cyclase (cAMP).

Subunit Structure: Interacts with ATRNL1 (By similarity). Homodimer; disulfide-linked, also forms higher order oligomers. Interacts with MGRN1, but does not undergo MGRN1-mediated ubiquitination; this interaction competes with GNAS-binding and thus inhibits agonist-induced cAMP production. Interacts with MRAP and MRAP2; these associated factors increase ligand-sensitivity and generation of cAMP.

Similarity: Belongs to the G-protein coupled receptor 1 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	119508433
NCBI GeneID	4160
NCBI Accession #	NP_005903.2
NCBI GenBank Nucleotide #	NM_005912.2
UniProt Accession #	P32245; Q16317; Q3MIJ6; B2RAC3
Molecular Weight	37 kD
NCBI Official Full Name	melanocortin receptor 4
NCBI Official Synonym Full Names	melanocortin 4 receptor
NCBI Official Symbol	MC4R
NCBI Protein Information	melanocortin receptor 4
UniProt Protein Name	Melanocortin receptor 4
UniProt Gene Name	MC4R
UniProt Synonym Gene Names	MC4-R

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mc4r-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/325588>