

## Rabbit MC4-R/MC4R Polyclonal Antibody | anti-MC4R antibody

Anti-MC4-R/MC4R Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                                                                  |
|-----------|--------|-------------------|---------------------------------------------------------------------------------------------------------------|
| AAA125404 | Rabbit | Human, Mouse, Rat | Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

MC4-R/MC4R; Polyclonal Antibody; Anti-MC4-R/MC4R Antibody; Melanocortin receptor 4; MC4-R; MC4R; anti-MC4R antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                  |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                           |
| Reactivity                                     | Human, Mouse, Rat                                                                                                                                                                                                |
| Clonality                                      | Polyclonal                                                                                                                                                                                                       |
| Isotype                                        | IgG                                                                                                                                                                                                              |
| Specificity                                    | No cross reactivity with other proteins.                                                                                                                                                                         |
| Purity/Purification                            | Immunogen affinity purified.                                                                                                                                                                                     |
| Form/Format                                    | Lyophilized<br>Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .                                                                                  |
| Sequence Length                                | 332                                                                                                                                                                                                              |
| Applicable Applications for anti-MC4R antibody | FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)                                                                                     |
| Immunogen                                      | A synthetic peptide corresponding to a sequence of human MC4-R/MC4R (QELRKTFKEIICCYPLGGLCDLSSRY).                                                                                                                |
| Reconstitution                                 | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                             |
| Relevant Detection Systems                     | The lab recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (Please inquire) for Western blot, and HRP Conjugated anti- Rabbit IgG Super Vision Assay Kit (Please inquire) for IHC(P) and ICC.         |
| Preparation and Storage                        | Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen store at -20 degree C for a longer time. Avoid repeated freezing and thawing. |

### IMAGES

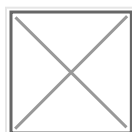
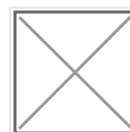
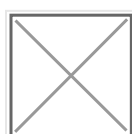
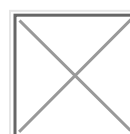

**WB (Western Blot)**

Figure 1. Western blot analysis of MC4R using anti-MC4R antibody.


**IHC (Immunohistochemistry)**

**IF (Immunofluorescence)**

**FCM/FACS (Flow Cytometry)**

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-MC4R antibody | Background: Melanocortin receptor 4 is a protein that in humans is encoded by the MC4R gene. This gene is mapped to 18q21.32. The protein encoded by this gene is a membrane-bound receptor and member of the melanocortin receptor family. The encoded protein interacts with adrenocorticotrophic and MSH hormones and is mediated by G proteins. This is an intronless gene. Defects in this gene are a cause of autosomal dominant obesity.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| References                                         | 1. Hardy, R., Wills, A. K., Wong, A., Elks, C. E., Wareham, N. J., Loos, R. J. F., Kuh, D., Ong, K. K. Life course variations in the associations between FTO and MC4R gene variants and body size. Hum. Molec. Genet. 19: 545-552, 2010.<br>2. Hebebrand, J., Geller, F., Dempfle, A., Heinzl-Gutenbrunner, M., Raab, M., Gerber, G., Wermter, A.-K., Horro, F. F., Blundell, J., Schafer, H., Remschmidt, H., Herpertz, S., Hinney, A. Binge-eating episodes are not characteristic of carriers of melanocortin-4 receptor gene mutations. Molec. Psychiat. 9: 796-800, 2004.<br>3. Heid, I. M., Vollmert, C., Hinney, A., Doring, A., Geller, F., Lowel, H., Wichmann, H.-E., Illig, T., Hebebrand, J., Kronenberg, F., the KORA group. Association of the 1031 MC4R allele with decreased body mass in 7937 participants of two population based surveys. J. Med. Genet. 42: e21, 2005. Note: Electronic Article. |

NCBI AND UNIPROT INFORMATION

|                                  |                         |
|----------------------------------|-------------------------|
| NCBI GI #                        | 119508433               |
| NCBI GeneID                      | 4160                    |
| NCBI Accession #                 | NP_005903.2             |
| NCBI GenBank Nucleotide #        | NP_005903.2             |
| UniProt Accession #              | P32245                  |
| NCBI Official Full Name          | melanocortin receptor 4 |
| NCBI Official Synonym Full Names | melanocortin 4 receptor |
| NCBI Official Symbol             | MC4R                    |
| NCBI Official Synonym Symbols    | BMIQ20                  |
| NCBI Protein Information         | melanocortin receptor 4 |
| UniProt Protein Name             | Melanocortin receptor 4 |
| UniProt Gene Name                | MC4R                    |
| UniProt Synonym Gene Names       | MC4-R                   |
| UniProt Entry Name               | MC4R_HUMAN              |

**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/mc4-r-mc4r-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/125404>