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**Product Name: MC4-R Rabbit Polyclonal Antibody****Catalog #: APRab13699**

For research use only.

**Summary**

|                      |                                                                                                   |
|----------------------|---------------------------------------------------------------------------------------------------|
| <b>Description</b>   | Rabbit polyclonal Antibody                                                                        |
| <b>Host</b>          | Rabbit                                                                                            |
| <b>Application</b>   | WB,IHC,ICC/IF,ELISA                                                                               |
| <b>Reactivity</b>    | Human,Mouse,Rat                                                                                   |
| <b>Conjugation</b>   | Unconjugated                                                                                      |
| <b>Modification</b>  | Unmodified                                                                                        |
| <b>Isotype</b>       | IgG                                                                                               |
| <b>Clonality</b>     | Polyclonal                                                                                        |
| <b>Form</b>          | Liquid                                                                                            |
| <b>Concentration</b> | 1mg/ml                                                                                            |
| <b>Storage</b>       | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.                       |
| <b>Shipping</b>      | Ice bags                                                                                          |
| <b>Buffer</b>        | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| <b>Purification</b>  | Affinity purification                                                                             |

**Application**

|                         |                                                                         |
|-------------------------|-------------------------------------------------------------------------|
| <b>Dilution Ratio</b>   | WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:20000-1:40000 |
| <b>Molecular Weight</b> | 37kDa                                                                   |

**Antigen Information**

|                          |                                                                                                  |
|--------------------------|--------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | MC4R                                                                                             |
| <b>Alternative Names</b> | MC4R; Melanocortin receptor 4; MC4-R                                                             |
| <b>Gene ID</b>           | 4160.0                                                                                           |
| <b>SwissProt ID</b>      | P32245                                                                                           |
| <b>Immunogen</b>         | The antiserum was produced against synthesized peptide derived from human MC4R. AA range:281-330 |

**Background**

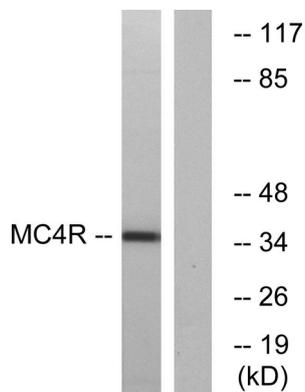
The protein encoded by this gene is a membrane-bound receptor and member of the melanocortin receptor family. The

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. [provided by RefSeq, Jan 2010],disease:Defects in MC4R are a cause of autosomal dominant obesity [MIM:601665],.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.,online information:Melanocortin receptor entry,similarity:Belongs to the G-protein coupled receptor 1 family.,subunit:Interacts with ATRNL1.,tissue specificity:Brain, placental, and gut tissues.,

## Research Area

Neuroactive ligand-receptor interaction;

## Image Data



Western blot analysis of lysates from MCF-7 cells, using MC4R Antibody. The lane on the right is blocked with the synthesized peptide.