

**MRAP2 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP13187c****Specification**

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**MRAP2 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q96G30](#)**MRAP2 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 112609**Other Names**

Melanocortin-2 receptor accessory protein 2, MC2R accessory protein 2, MRAP2, C6orf117

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody AP13187c was selected from the Center region of MRAP2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**MRAP2 Antibody (Center) Blocking Peptide - Protein Information****Name** MRAP2**Synonyms** C6orf117**Function**

Modulator of melanocortin receptor 4 (MC4R), a receptor involved in energy homeostasis. Plays a central role in the control of energy homeostasis and body weight regulation by increasing ligand-sensitivity of MC4R and MC4R-mediated generation of cAMP (By similarity). May also act as a negative regulator of MC2R: competes with MRAP for binding to MC2R and impairs the binding of corticotropin (ACTH) to MC2R. May also regulate activity of other melanocortin receptors (MC1R, MC3R and MC5R); however, additional evidence is required in vivo.

**Cellular Location**

Cell membrane; Single-pass membrane protein. Endoplasmic reticulum membrane; Single-pass membrane protein. Note=The formation of antiparallel homo- and heterodimers suggest that N- and C-terminus can both localize in the cytoplasmic and extracellular parts, depending on the

context.

**Tissue Location**

Expressed in the adrenal gland and brain. Not expressed in other tissues.

**MRAP2 Antibody (Center) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**MRAP2 Antibody (Center) Blocking Peptide - Images****MRAP2 Antibody (Center) Blocking Peptide - Background**

The specific function of this protein remains unknown.

**MRAP2 Antibody (Center) Blocking Peptide - References**

Sebag, J.A., et al. Sci Signal 3 (116), RA28 (2010) :Chan, L.F., et al. Proc. Natl. Acad. Sci. U.S.A. 106(15):6146-6151(2009)Sebag, J.A., et al. J. Biol. Chem. 284(1):610-618(2009)Lamesch, P., et al. Genomics 89(3):307-315(2007)Metherell, L.A., et al. Nat. Genet. 37(2):166-170(2005)