

MRAP Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9980a

Specification

MRAP Antibody (N-term) - Product Information

Application	WB, IHC-P, FC,E
Primary Accession	Q8TCY5
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	19136
Antigen Region	7-36

MRAP Antibody (N-term) - Additional Information

Gene ID 56246

Other Names

Melanocortin-2 receptor accessory protein, B27, Fat cell-specific low molecular weight protein, Fat tissue-specific low MW protein, MRAP, C21orf61, FALP

Target/Specificity

This MRAP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 7-36 amino acids from the N-terminal region of human MRAP.

Dilution

WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

MRAP Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MRAP Antibody (N-term) - Protein Information

Name MRAP

Synonyms C21orf61, FALP

Function Modulator of melanocortin receptors (MC1R, MC2R, MC3R, MC4R and MC5R). Acts by increasing ligand-sensitivity of melanocortin receptors and enhancing generation of cAMP by the receptors. Required both for MC2R trafficking to the cell surface of adrenal cells and for signaling in response to corticotropin (ACTH). May be involved in the intracellular trafficking pathways in adipocyte cells.

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 (PubMed:20371771). Upon insulin stimulation, it is redistributed into spotty structures throughout the cytoplasm

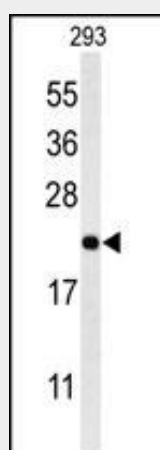
Tissue Location

Expressed in adrenal cortex, testis, breast, thyroid, lymph node, ovary and fat. Expressed in adipose tissues

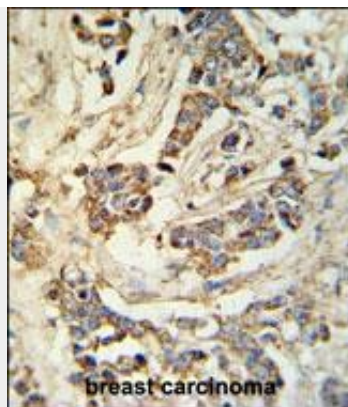
MRAP Antibody (N-term) - Protocols

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

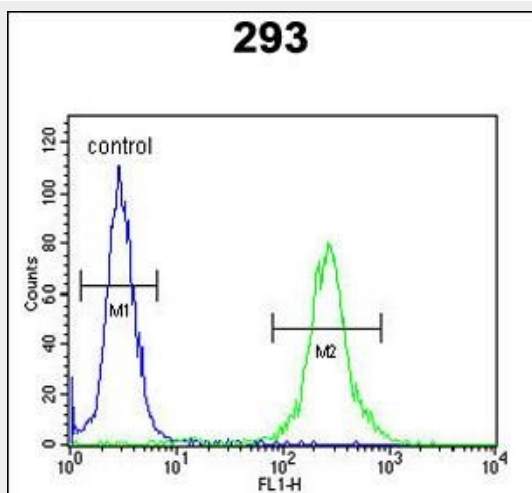
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

MRAP Antibody (N-term) - Images

Western blot analysis of MRAP Antibody (N-term) (Cat. #AP9980a) in 293 cell line lysates (35ug/lane). MRAP (arrow) was detected using the purified Pab.



MRAP Antibody (N-term) (Cat. #AP9980a) IHC analysis in formalin fixed and paraffin embedded breast carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the MRAP Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



MRAP Antibody (N-term) (Cat. #AP9980a) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

MRAP Antibody (N-term) - Background

MRAP encodes a melanocortin receptor-interacting protein. The encoded protein regulates trafficking and function of the melanocortin 2 receptor in the adrenal gland. The encoded protein can also modulate signaling of other melanocortin receptors. Mutations in this gene have been associated with familial glucocorticoid deficiency type 2.

MRAP Antibody (N-term) - References

Dias, R.P., et al. Eur. J. Endocrinol. 162(2):357-359(2010)
Chan, L.F., et al. Proc. Natl. Acad. Sci. U.S.A. 106(15):6146-6151(2009)
Webb, T.R., et al. Endocrinology 150(2):720-726(2009)

MRAP Antibody (N-term) - Citations

- [Estrogen Suppresses Interaction of Melanocortin 2 Receptor and Its Accessory Protein in the Primate Fetal Adrenal Cortex.](#)