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MGRN1 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP7634a

Specification

MGRN1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession O60291

MGRN1 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 23295

Other Names
E3 ubiquitin-protein ligase MGRN1, 632-, Mahogunin RING finger protein 1, RING finger protein 156, MGRN1, KIAA0544, RNF156

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7634a was selected from the N-term region of human MGRN1. 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.

MGRN1 Antibody (N-term) Blocking Peptide - Protein Information

Name MGRN1

Synonyms KIAA0544, RNF156

Function
E3 ubiquitin-protein ligase. Mediates monoubiquitination at multiple sites of TSG101 in the presence of UBE2D1, but not of UBE2G1, nor UBE2H. Plays a role in the regulation of endosome-to-lysosome trafficking. Impairs MC1R- and MC4R-signaling by competing with GNAS-binding to MCRs and inhibiting agonist-induced cAMP production. Does not inhibit ADRB2-signaling. Does not promote MC1R ubiquitination. Acts also as a negative regulator of hedgehog signaling (By similarity).

Cellular Location
Early endosome. Note=The endosomal localization is dependent on the interaction with TSG101

[Isoform 2]: Cytoplasm, cytosol. Nucleus. Note=Translocation from the cytosol to the nucleus is seen only in the presence of MC1R and MC4R, but not TBXA2R. Excluded from nucleoli [Isoform 4]: Cytoplasm, cytosol. Cell membrane.

MGRN1 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

MGRN1 Antibody (N-term) Blocking Peptide - Images

MGRN1 Antibody (N-term) Blocking Peptide - Background

Mahogunin (MGRN1) is a C3HC4 RING-containing protein with E3 ubiquitin ligase activity in vitro.

MGRN1 Antibody (N-term) Blocking Peptide - References

Chakrabarti,O., Cell 137 (6), 1136-1147 (2009)Kim,B.Y., Mol. Biol. Cell 18 (4), 1129-1142 (2007)