

AMFR Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP14958c**Specification**

AMFR Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q9UKV5](#)**AMFR Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 267**Other Names**

E3 ubiquitin-protein ligase AMFR, 632-, Autocrine motility factor receptor, AMF receptor, RING finger protein 45, gp78, AMFR, RNF45

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.

AMFR Antibody (Center) Blocking Peptide - Protein Information**Name** AMFR {ECO:0000303|PubMed:10456327, ECO:0000312|HGNC:HGNC:463}**Function**

E3 ubiquitin-protein ligase that mediates the polyubiquitination of lysine and cysteine residues on target proteins, such as CD3D, CYP3A4, CFTR, INSIG1, SOAT2/ACAT2 and APOB for proteasomal degradation (PubMed: [10456327](http://www.uniprot.org/citations/10456327), PubMed: [11724934](http://www.uniprot.org/citations/11724934), PubMed: [12670940](http://www.uniprot.org/citations/12670940), PubMed: [19103148](http://www.uniprot.org/citations/19103148), PubMed: [24424410](http://www.uniprot.org/citations/24424410), PubMed: [28604676](http://www.uniprot.org/citations/28604676)). Component of a VCP/p97-AMFR/gp78 complex that participates in the final step of endoplasmic reticulum-associated degradation (ERAD) (PubMed: [10456327](http://www.uniprot.org/citations/10456327), PubMed: [11724934](http://www.uniprot.org/citations/11724934), PubMed: [19103148](http://www.uniprot.org/citations/19103148), PubMed: [24424410](http://www.uniprot.org/citations/24424410)). The VCP/p97-AMFR/gp78 complex is involved in the sterol-accelerated ERAD degradation of HMGCR through binding to the HMGCR-INSIG1 complex at the ER membrane (PubMed: [16168377](http://www.uniprot.org/citations/16168377), PubMed: [16168377](http://www.uniprot.org/citations/16168377)).

<http://www.uniprot.org/citations/22143767> target="_blank">22143767). In addition, interaction of AMFR with AUP1 facilitates interaction of AMFR with ubiquitin-conjugating enzyme UBE2G2 and ubiquitin ligase RNF139, leading to sterol-induced HMGR ubiquitination (PubMed:23223569). The ubiquitinated HMGR is then released from the ER into the cytosol for subsequent destruction (PubMed:16168377, PubMed:22143767, PubMed:23223569). In addition to ubiquitination on lysine residues, catalyzes ubiquitination on cysteine residues: together with INSIG1, mediates polyubiquitination of SOAT2/ACAT2 at 'Cys-277', leading to its degradation when the lipid levels are low (PubMed:28604676). Catalyzes ubiquitination and subsequent degradation of INSIG1 when cells are depleted of sterols (PubMed:17043353). Mediates polyubiquitination of INSIG2 at 'Cys-215' in some tissues, leading to its degradation (PubMed:31953408). Also regulates ERAD through the ubiquitination of UBL4A a component of the BAG6/BAT3 complex (PubMed:21636303). Also acts as a scaffold protein to assemble a complex that couples ubiquitination, retranslocation and deglycosylation (PubMed:21636303). Mediates tumor invasion and metastasis as a receptor for the GPI/autocrine motility factor (PubMed:10456327). In association with LMBR1L and UBAC2, negatively regulates the canonical Wnt signaling pathway in the lymphocytes by promoting the ubiquitin-mediated degradation of CTNNB1 and Wnt receptors FZD6 and LRP6 (PubMed:31073040). Regulates NF-kappa-B and MAPK signaling pathways by mediating 'Lys-27'-linked polyubiquitination of TAB3 and promoting subsequent TAK1/MAP3K7 activation (PubMed:36593296). Required for proper lipid homeostasis (PubMed:37119330).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein. Note=Palmitoylation promotes localization to the peripheral endoplasmic reticulum

Tissue Location

Widely expressed..

AMFR Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

AMFR Antibody (Center) Blocking Peptide - Images

AMFR Antibody (Center) Blocking Peptide - Background

Autocrine motility factor is a tumor motility-stimulating protein secreted by tumor cells. The protein encoded by this gene is a glycosylated transmembrane protein and a receptor for autocrine motility factor. The receptor, which shows some sequence similarity to tumor protein p53, is localized to the leading and trailing edges of carcinoma cells.

AMFR Antibody (Center) Blocking Peptide - References

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