

AMFR Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2162a

Specification

AMFR Antibody (C-term) - Product Information

Application	WB, IHC-P, FC,E
Primary Accession	O9UKV5
Other Accession	P26442
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Antigen Region	571-601

AMFR Antibody (C-term) - 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

Target/Specificity

This AMFR antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 571-601 amino acids of human AMFR.

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 prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

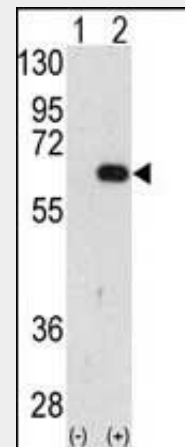
Storage

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.

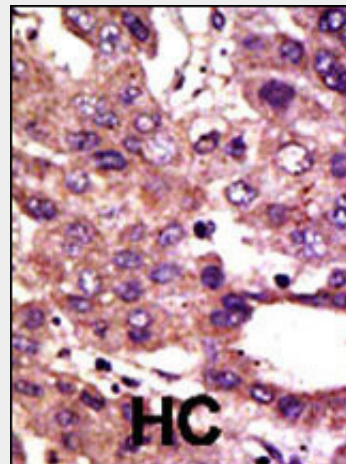
Precautions

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

AMFR Antibody (C-term) - Protein Information



Western blot analysis of AMFR (arrow) using AMFR Antibody (C-term) (Cat.#AP2162a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the AMFR gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

Name AMFR

Synonyms RNF45

Function

E3 ubiquitin-protein ligase that mediates the polyubiquitination of a number of proteins such as CD3D, CYP3A4, CFTR and APOB for proteasomal degradation. Component of a VCP/p97-AMFR/gp78 complex that participates in the final step of endoplasmic reticulum-associated degradation (ERAD). The VCP/p97-AMFR/gp78 complex is involved in the sterol-accelerated ERAD degradation of HMGCR through binding to the HMGCR-INSIG complex at the ER membrane and initiating ubiquitination of HMGCR. The ubiquitinated HMGCR is then released from the ER by the complex into the cytosol for subsequent destruction. Also regulates ERAD through the ubiquitination of UBL4A a component of the BAG6/BAT3 complex. Also acts as a scaffold protein to assemble a complex that couples ubiquitination, retranslocation and deglycosylation. Mediates tumor invasion and metastasis as a receptor for the GPI/autocrine motility factor. 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).

Cellular Location

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

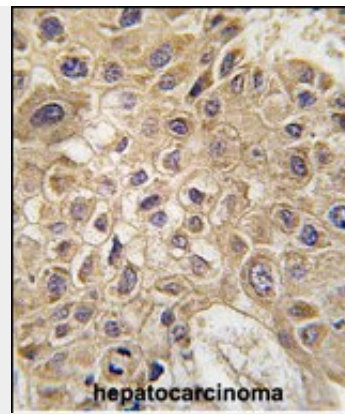
AMFR Antibody (C-term) - Protocols

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

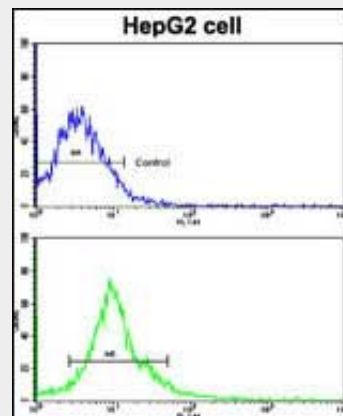
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

AMFR Antibody (C-term) - Citations

- [Phosphoglucose isomerase/autocrine motility factor promotes melanoma cell migration through ERK activation dependent on autocrine production of interleukin-8.](#)
- [Giant cell tumors of the bone: molecular profiling and expression analysis of Ephrin A1 receptor, Claudin 7, CD52, FGFR3 and AMFR.](#)



Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with AMFR Antibody (C-term) (Cat.#AP2162a), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of HepG2 cells using AMFR Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

AMFR Antibody (C-term) - Background

Autocrine motility factor (AMF) is a protein secreted by tumor cells that stimulates tumor motility. The gene for AMFR encodes a 323-amino acid polypeptide that has a single transmembrane domain and several putative glycosylation sites. The protein sequence has some homology to human tumor protein p53.

AMFR Antibody (C-term) - References

Huang, B., et al., Biochem. Biophys. Res. Commun. 212(3):727-742 (1995).
Watanabe, H., et al., J. Biol. Chem. 266(20):13442-13448 (1991).

