E3 Ubiquitin-Protein Ligase AMFR (AMFR) ELISA Kit for Human

PRODUCT OVERVIEW

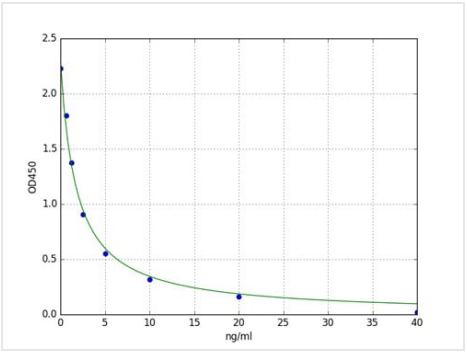
Product Name	E3 ubiquitin-protein ligase AMFR, ELISA Kit
Full Product Name	Human E3 ubiquitin-protein ligase AMFR ELISA Kit
Product Gene Name	AMFR elisa kit
Product Synonym Names	AMFR/E3 ubiquitin-protein ligase AMFR/gp78/Autocrine motility factor receptor/AMF receptor/RING finger protein 45/GP78/RNF45
Species Reactivity	Human
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	15.625-1000pg/ml
Sensitivity	9.375pg/ml
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C
Molecular Weight	72,996 Da
OMIM	603243
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for AMFR elisa kit	Principle of the Assay||This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-AMFR antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-AMFR antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the AMFR amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of AMFR can be calculated.
Other Notes	Small volumes of AMFR elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for AMFR purchase	MBS762273 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the E3 ubiquitin-protein ligase AMFR, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing AMFR. The ELISA analytical biochemical technique of the MBS762273 kit is based on AMFR antibody-AMFR antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect AMFR antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, AMFR. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).

Typical Data & Standard Curve

Results of a typical standard run of a AMFR ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	ng/ml	0	0.625	1.25	2.5	5	10	20	40
Y	OD450	0.035	0.084	0.163	0.277	0.502	0.943	1.667	2.491

Typical Testing Data of AMFR elisa kit



Typical Standard Curve of AMFR elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AMFR. It may not necessarily be applicable to this product.

NCBI GI #	21071001
NCBI GeneID	267
NCBI Accession #	NP_001135.3
UniProt Secondary Accession #	P26442; Q8IZ70
UniProt Related Accession #	Q9UKV5
GenBank Nucleotide #	NM_001144.5
NCBI Official Full Name	E3 ubiquitin-protein ligase AMFR
NCBI Official Synonym Full Names	autocrine motility factor receptor, E3 ubiquitin protein ligase
NCBI Official Symbol	AMFR
NCBI Official Synonym Symbols	GP78; RNF45
UniProt Protein Name	E3 ubiquitin-protein ligase AMFR
UniProt Synonym Protein Names	Autocrine motility factor receptor; AMF receptor; RING finger protein 45; gp78
Protein Family	E3 ubiquitin-protein ligase
UniProt Gene Name	AMFR
UniProt Synonym Gene Names	RNF45; AMF receptor
UniProt Entry Name	AMFR_HUMAN
NCBI Protein Information	E3 ubiquitin-protein ligase AMFR
NCBI Summary for AMFR	This locus encodes a glycosylated transmembrane receptor. Its ligand, autocrine motility factor, is a tumor motility-stimulating protein secreted by tumor cells. The encoded receptor is also a member of the E3 ubiquitin ligase family of proteins. It catalyzes ubiquitination and endoplasmic reticulum-associated degradation of specific proteins. [provided by RefSeq, Feb 2012]

UniProt Comments for AMFR	AMFR: 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 acts as a scaffold protein to assemble a complex that couples ubiquitination, retranslocation and deglycosylation. Mediates tumor invasion and metastasis. Interacts with RNF5. Also forms an ERAD complex containing VCP/p97, NGLY1; PSMC1; SAKS1 AND RAD23B required for coupling retrotranslocation, ubiquitination and deglycosylation. Interacts with DRL1. Interacts (through a region distinct from the RING finger) with UBE2G2/UBC7. Component of the VCP/p97-AMFR/gp78 complex that enhances VCP/p97 binding to polyubiquitinated proteins for their degradation by the endoplasmic reticulum-associated degradation (ERAD) pathway. Interacts (via the VIM) with VCP/p97. Interacts (via its membrane domain) with INSIG1; the interaction initiates the sterol-mediated ubiquitination and degradation of HMGCR by the ERAD pathway. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Endoplasmic reticulum; Membrane protein, integral; EC 6.3.2.-; Receptor, misc.; EC 6.3.2.19; Ligase; Membrane protein, multi-pass; Motility/polarity/chemotaxis; Ubiquitin ligase; Ubiquitin conjugating system Chromosomal Location of Human Ortholog: 16q21 Cellular Component: cell soma; dendrite; endoplasmic reticulum membrane; growth cone; integral to endoplasmic reticulum membrane; integral to membrane; membrane; nucleus; perinuclear region of cytoplasm; protein complex Molecular Function: chaperone binding; ligase activity; protein binding; protein binding, bridging; receptor activity; ubiquitin-protein ligase activity; zinc ion binding Biological Process: aging; cell motility; ER-associated protein catabolic process; learning and/or memory; positive regulation of protein binding; protein autoubiquitination; protein oligomerization; protein polyubiquitination; protein ubiquitination during ubiquitin-dependent protein catabolic process; signal transduction; ubiquitin-dependent protein catabolic process; unfolded protein response
Research Articles on AMFR	**1.** The authors identify USP13 as a gp78-associated deubiquitinase that eliminates ubiquitin conjugates from Ubl4A to maintain the functionality of Bag6.
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