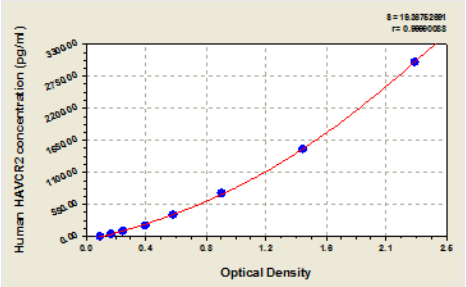
Hepatitis A Virus Cellular Receptor 2 (HAVCR2) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	hepatitis A virus cellular receptor 2 (HAVCR2), ELISA Kit
Full Product Name	Human Hepatitis A virus cellular receptor 2, HAVCR2 ELISA Kit
Product Gene Name	HAVCR2 elisa kit
Product Synonym Names	Human Hepatitis A virus cellular receptor 2 (HAVCR2) ELISA kit; FLJ14428; KIM-3; TIM3; TIMD3; Tim-3; T cell immunoglobulin mucin 3; T cell immunoglobulin mucin-3; kidney injury molecule-3; hepatitis A virus cellular receptor 2
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, plasma, tissue homogenates
Detection Range	47 pg/ml -3000 pg/ml.
Sensitivity	The minimum detectable dose of human HAVCR2 is typically less than 11.75 pg/ml. The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest protein concentration that could be differentiated from zero. It was determined the mean O.D value of 20 replicates of the zero standard added by their three standard deviations.
Specificity	This assay has high sensitivity and excellent specificity for detection of human HAVCR2. No significant cross-reactivity or interference between human HAVCR2 and analogues was observed.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.
Inter-assay Precision	Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.
Molecular Weight	33,394 Da
OMIM	606652
3D Structure	ModBase 3D Structure for Q8TDQ0
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for HAVCR2 elisa kit	**Principle of the assay:** This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for HAVCR2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any HAVCR2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for HAVCR2 is added to the wells. After washing, avidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of HAVCR2 bound in the initial step. The color development is stopped and the intensity of the color is measured.
Other Notes	Small volumes of HAVCR2 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 HAVCR2 purchase	MBS946465 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the hepatitis A virus cellular receptor 2 (HAVCR2) 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 HAVCR2. The ELISA analytical biochemical technique of the MBS946465 kit is based on HAVCR2 antibody-HAVCR2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect HAVCR2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, HAVCR2. 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 Testing Data/Standard Curve (for reference only) of HAVCR2 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HAVCR2. It may not necessarily be applicable to this product.

NCBI GI #	49574534
NCBI GeneID	84868
NCBI Accession #	NP_116171.3
UniProt Primary Accession #	Q8TDQ0
UniProt Secondary Accession #	Q8WW60; Q96K94; B2RAY2
UniProt Related Accession #	Q8TDQ0
GenBank Nucleotide #	NM_032782.4
NCBI Official Full Name	hepatitis A virus cellular receptor 2
NCBI Official Synonym Full Names	hepatitis A virus cellular receptor 2
NCBI Official Symbol	HAVCR2
NCBI Official Synonym Symbols	TIM3; KIM-3; TIMD3; Tim-3; TIMD-3; HAVcr-2
UniProt Protein Name	Hepatitis A virus cellular receptor 2
UniProt Synonym Protein Names	T-cell immunoglobulin and mucin domain-containing protein 3; TIMD-3; T-cell immunoglobulin mucin receptor 3; TIM-3; T-cell membrane protein 3
Protein Family	Hepatitis A virus cellular receptor
UniProt Gene Name	HAVCR2
UniProt Synonym Gene Names	TIM3; TIMD3; HAVcr-2; TIMD-3; TIM-3
UniProt Entry Name	HAVR2_HUMAN
NCBI Protein Information	hepatitis A virus cellular receptor 2; kidney injury molecule-3; T-cell membrane protein 3; T cell immunoglobulin mucin 3; T cell immunoglobulin mucin-3; T-cell immunoglobulin mucin receptor 3; T-cell immunoglobulin mucin family member 3; T-cell immunoglobulin and mucin domain-containing protein 3

NCBI Summary for HAVCR2	The protein encoded by this gene belongs to the immunoglobulin superfamily, and TIM family of proteins. CD4-positive T helper lymphocytes can be divided into types 1 (Th1) and 2 (Th2) on the basis of their cytokine secretion patterns. Th1 cells are involved in cell-mediated immunity to intracellular pathogens and delayed-type hypersensitivity reactions, whereas, Th2 cells are involved in the control of extracellular helminthic infections and the promotion of atopic and allergic diseases. This protein is a Th1-specific cell surface protein that regulates macrophage activation, and inhibits Th1-mediated auto- and alloimmune responses, and promotes immunological tolerance. [provided by RefSeq, Sep 2011]
UniProt Comments for HAVCR2	TIM-3: Regulates macrophage activation. Inhibits T-helper type 1 lymphocyte (Th1)-mediated auto- and alloimmune responses and promotes immunological tolerance. May be also involved in T-cell homing. Receptor for LGALS9. Belongs to the immunoglobulin superfamily. TIM family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Receptor, misc. Chromosomal Location of Human Ortholog: 5q33.3 Cellular Component: integral to membrane Disease: Rheumatoid Arthritis
Research Articles on HAVCR2	**1.** Data indicate the expression of programmed cell death protein 1 (PD-1), inducible T-cell Costimulator (ICOS), Cytotoxic T-Lymphocyte Antigen 4 (CTLA-4) and T cell immunoglobulin and mucin protein 3 (Tim-3) in T-cells from geriatric and younger subjects.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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