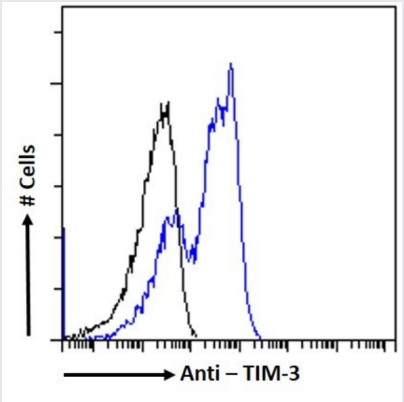
TIM-3 Antibody

PRODUCT OVERVIEW

Product Name	TIM-3, Antibody
Full Product Name	Anti-TIM-3 [7H2]
Product Gene Name	anti-TIM-3 antibody
Product Synonym Names	CD366; Hepatitis A virus cellular receptor 2; Hepatitis A virus cellular receptor 2; HAVcr-2; T-cell immunoglobulin and mucin domain-containing protein 3; TIMD-3; T-cell immunoglobulin mucin receptor 3; T-cell membrane protein 3; D5D5R; E3; CGMCCNO 20763
Isotype	Rabbit IgG kappa
Clone Number	7H2
Species Reactivity	Human
Form/Format	PBS with 0.02% Proclin 300.
Purity/Purification	Purified. Protein A affinity purified
Concentration	1mg/ml (lot specific)
Specificity	The original antibody is specific for TIM-3. TIM-3 is a type I transmembrane protein and contains an immunoglobulin and a mucin-like domain in its extracellular portion and a tyrosine phosphorylation motif in its cytoplasmic portion.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.
Molecular Weight	301
OMIM	606652
3D Structure	ModBase 3D Structure for Q8TDQ0
Animal-free Manufacturing Platform	The recombinant antibody is manufactured using a recombinant, mammalian HEK293-based expression platform. The manufacturing platform is animal-free and animal component-free.
Product Categories/Family for anti-TIM-3 antibody	Tumor
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TIM-3 antibody	Immunohistochemistry (IHC), Western Blot (WB), ELISA (EIA)
Application Notes for anti-TIM-3 antibody	The antibody specifically detected TIM-3 protein in Western blot analysis. The antibody 7H2 and the commercial antibody D5D5R were used to stain tonsils and appendix tissue. Results showed the antibody specificity is comparable to the commercial antibody (CN113234158A).
Related Product Information for anti-TIM-3 antibody	The original antibody was generated by immunizing mice with recombinant TIM-3 protein. This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format for improved compatibility with existing reagents assays and techniques.
Other Notes	Small volumes of anti-TIM-3 antibody 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 TIM-3 purchase	MBS489215 is an antibody targeting TIM-3. Also known as Anti-TIM-3 [7H2]. Reactive in Human.



Immunofluorescence (IF) of anti-TIM-3 antibody
Immunofluorescence staining of Daudi cells with anti-TIM-3 antibody 7H2 . Immunofluorescence analysis of paraformaldehyde fixed Daudi cells on Shi-fix™ coverslips stained with the chimeric rabbit IgG version of 7H2 (MBS489215) (1:100 dilution) for 1h followed by Alexa Fluor 488 secondary antibody (1:1000 dilution), showing membrane and cytoplasmic staining. The nuclear stain is DAPI (blue). Panels show, from left-right, top-bottom, MBS489215, DAPI, merged channels, and an isotype control. The isotype control was an unknown specificity antibody (isotype control, black line) or the rabbit IgG version of 7H2 (MBS489215, blue line) at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000 and the cells were analyzed using a FACSCanto flow-cytometer.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TIM-3. It may not necessarily be applicable to this product.

NCBI GI #	311033536
NCBI GeneID	84868
NCBI Accession #	Q8TDQ0.3
UniProt Primary Accession #	Q8TDQ0
UniProt Secondary Accession #	Q8WW60; Q96K94; B2RAY2
UniProt Related Accession #	Q8TDQ0
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 immunoglo

NCBI Summary for TIM-3	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 TIM-3	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: Receptor, misc.; Membrane protein, integral Chromosomal Location of Human Ortholog: 5q33.3 Cellular Component: integral to membrane Disease: Rheumatoid Arthritis
Research Articles on TIM-3	**1.** TIM-3 polymorphism is associated with increased susceptibility to Ankylosing spondylitis possibly by downregulating gene expression.
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