

Mouse TIM-3 Alexa Fluor® 594-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 215015 Catalog Number: FAB15291T

100 µg

DESCRIPTION				
Species Reactivity	Mouse			
Specificity	Detects mouse TIM-3 in direct ELISAs and Western blots. In direct ELISAs and Western blots, this antibody does not cross-react with recombinant human (rh) TIM-1, recombinant mouse (rm) TIM-1, rmTIM-2, or rhTIM-3.			
Source	Monoclonal Rat IgG _{2A} Clone # 215015			
Purification	Protein A or G purified from hybridoma culture supernatant			
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse TIM-3 Arg20-Ala193 Accession # Q8VIM0			
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm			
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide			
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.			

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

DD	EDA	DAT	ON	AND	STO	RAGE
	1-1-6	KAII	UN.	AND	טופי	RAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.		
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied		

BACKGROUND

TIM-3 (T cell immunoglobulin and mucin domain-3) is a 60 kDa member of the TIM family of immune regulating molecules. TIMs are type I transmembrane glycoproteins with one Ig-like V-type domain and a Ser/Thr-rich mucin stalk (1-3). There are three TIM genes in human and eight in mouse. Mature mouse TIM-3 consists of a 174 aa extracellular domain (ECD), a 21 aa transmembrane segment (TM), and a 67 aa cytoplasmic tail (4). Two alternately spliced isoforms have been reported in mouse which lack either the TM or both the TM and mucin regions (5, 6). Within the ECD, mouse TIM-3 shares 58% and 74% aa sequence identity with human and rat TIM-3, respectively. TIM-3 is specifically expressed on Th1 cells whereas TIM-1 and TIM-2 are expressed on TH2 cells. In chronic inflammation, autoimmune disorders, and some cancers, TIM-3 is upregulated on several other hematopoietic cell types and on hippocampal neurons (9-12). The glycosylated Ig domain of TIM-3 binds cell-associated galectin-9 which induces TIM-3 Tyr phosphorylation and proapoptotic signaling (10, 13). TIM-3 functions as a negative regulator of Th1 cell activity. Its blockade results in increased IFN-γ production, Th1 cell proliferation, and cytotoxicity (5, 7, 12, 14). TIM-3 may play a role in regulatory T cell development (7), inflammation (15), and immune tolerance (5, 13, 14). Soluble mouse TIM-3 has been shown to inhibit anti-tumor effector T cell responses and to enhance autoimmune reactions (6, 7).

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.

Rev. 9/19/2025 Page 1 of 1

Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956