

Datasheet for ABIN7072497

Recombinant anti-TIM3 antibody[Go to Product page](#)**1** Image

Overview

Quantity:	200 µg
Target:	TIM3 (TIM 3)
Reactivity:	Mouse
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Chimeric
Conjugate:	This TIM3 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunohistochemistry (IHC), Immunofluorescence (IF), Blocking Peptide (BP)

Product Details

Purpose:	Anti-Tim-3 [2C12], Rabbit IgG, kappa
Immunogen:	This antibody was raised by immunising rats with TIM-3:Ig fusion protein emulsified in complete Freund's adjuvant.
Clone:	2C12
Isotype:	IgG kappa
Specificity:	This antibody is specific for murine TIM-3, a Th1-specific cell surface protein. 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. This antibody binds to the BALB/c allele of TIM-3 while reactivity to the C57Bl/6 allele is significantly weaker.

Product Details

Characteristics: Original Species of Ab: Rat
Original Format of Ab: IgG1

Purification: Protein A affinity purified

Target Details

Target: TIM3 (TIM 3)

Alternative Name: Tim-3 ([TIM 3 Products](#))

Target Type: Virus

Background: CD366, HAVcr-2, HAVCR2, Hepatitis A virus cellular receptor 2 homolog, T-cell immunoglobulin and mucin domain containing 3, T-cell immunoglobulin and mucin domain-containing protein 3, T-cell immunoglobulin mucin receptor 3, T-cell membrane protein 3, TIM-3, TIMD-3, TIM3, 8B.2C12

UniProt: [Q8VIM0](#)

Pathways: [Regulation of Lipid Metabolism by PPARAlpha](#), [Cancer Immune Checkpoints](#)

Application Details

Application Notes: This antibody was used in FACS, immunohistochemistry, immunofluorescence and a murine experimental autoimmune encephalomyelitis model to study the effects of TIM-3 triggering in dendritic cells (Anderson et al., 2007, PMID: 18006747). Furthermore, this antibody has been used in multiple FACS analyses for diverse immuno-oncological applications, such as to delineate how TIM-3 signaling on cells of the innate immune system critically influences regulation of the adaptive immune response (Frisancho-Kiss et al., 2006), to demonstrate the reversal of T cell exhaustion and restoration of anti-tumor immunity upon co-targeting Tim-3 and PD-1 pathways (Sakuishi et al., 2010, PMID: 20819927), and to examine the therapeutic potential of dendritic cell based vaccines against malignant glioma (Dey et al., 2015). This antibody has also been used in immunohistochemistry to aid the elucidation of the effects of Th2 immune deviation on corneal allograft survival and possible mechanisms of graft rejection (Beauregard et al., 2005). In addition, employing this anti-TIM-3 antibody as part of the combination immunotherapy (anti-TIM3 + anti-PD-1 +/- anti-CTLA-4) has been shown to be effective against experimental and carcinogen-induced tumors in mice (Sakuishi et al., 2010, PMID: 20819927) (Ngiow et al., 2011, PMID: 21430066).

Comment: This chimeric rabbit antibody was made using the variable domain sequences of the original

Application Details

Rat IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Restrictions: For Research Use only

Handling

Concentration: 1 mg/mL

Buffer: PBS with 0.02 % Proclin 300.

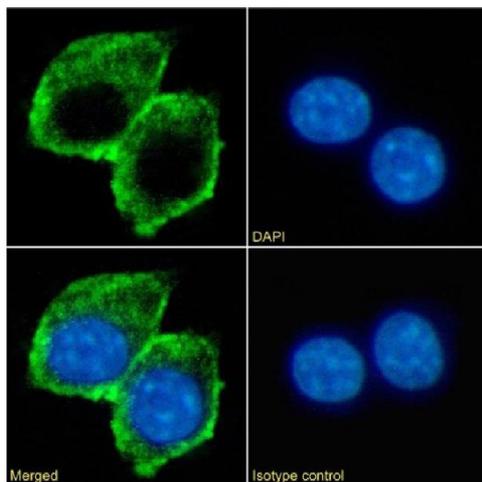
Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Images



Immunofluorescence

Image 1. Immunofluorescence staining of fixed RAW264.7 cells with anti-Tim-3 antibody 2C12. Immunofluorescence analysis of paraformaldehyde fixed RAW264.7 cells on Shi-fix™ coverslips stained with the chimeric rabbit IgG version of 2C12 (ABIN7072497) at 10 µg/mL for 1h followed by Alexa Fluor® 488 secondary antibody (2 µg/mL), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom ABIN7072497, DAPI, merged channels and an isotype control. The isotype control was an unknown specificity antibody (ABIN5668079) followed by staining with Alexa Fluor® 488 secondary antibody.