

Tim-3 Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50205

Clone# BP6182

Predicted Molecular Wt: 33kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: Q8TDQ0

Background:

T cell Ig- and mucin-domain-containing molecules (TIMs) are a family of transmembrane proteins expressed by various immune cells. TIM-3 is expressed by exhausted T cells in the settings of chronic infection and cancer, and tumor-infiltrating T cells that coexpress PD-1 and TIM-3 exhibit the most severe exhausted phenotype. TIM-3 is an inhibitory molecule that is induced following T cell activation. Tumor-infiltrating dendritic cells (DCs) also express TIM-3. TIM-3 expression on DCs was found to suppress innate immunity by reducing the immunogenicity of nucleic acids released by dying tumor cells. Research studies show that heterodimerization of TIM-3 with CEACAM-1 is critical for the inhibitory function of TIM-3, and co-blockade of TIM-3 and CEACAM-1 enhanced antitumor responses in a mouse model of colorectal cancer. In addition, blockade of TIM-3 in mouse models of autoimmunity enhanced the severity of disease.

Subcellular location:

Membrane

Recommended method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

Synthetic peptide corresponding to Human Tim-3 protein was used as an immunogen. The exact sequence is proprietary.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage conditions:

-20°C

Storage instructions:

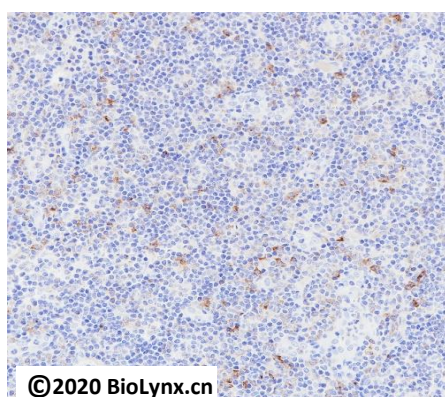
Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

Recommended Dilutions:

IHC-P: 1:100-1:200

Background References:

1. Monney, L. et al. (2002) Nature 415, 536-41.
2. Chiba, S. et al. (2012) Nat Immunol 13, 832-42.
3. Huang, Y.H. et al. (2015) Nature 517, 386-90.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of tonsil labelling Tim-3 with BP6182. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0

Product QC'd by:



For research use only. Not for use in diagnostic or therapeutic applications.