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36-3422: Anti-TIM3 / HAVCR2 / CD366 (Effector T-Cell Marker) Monoclonal Antibody(Clone: TIM3/3113)

Clonality :	Monoclonal
Clone Name :	TIM3/3113
Application :	ELISA,IHC
Reactivity :	Human
Gene :	HAVCR2
Gene ID :	84868
Uniprot ID :	Q8TDQ0
Alternative Name :	CD366; HAVR2; Hepatitis A virus cellular receptor 2 (HAVCR2); Kidney injury molecule 3 (KIM3); T-cell immunoglobulin and mucin domain-containing protein 3; T-cell immunoglobulin mucin receptor 3; T-cell membrane protein 3; TIM3; TIMD3
Isotype :	Mouse IgG2a, kappa
Immunogen Information :	Recombinant fragment of human TIM3 protein (around aa 22-202) (exact sequence is proprietary)

Description

TIMs are type I transmembrane glycoproteins with one Ig-like V-type domain and a Ser/Thr-rich mucin stalk. TIM-3 is expressed on the surface of effector T cells (CD4+Th1 and CD8+Tc1) but not on helper T cells (CD4+Th2 and CD8+Tc2). In chronic inflammation, autoimmune disorders, and some cancers, TIM-3 is upregulated on several other hematopoietic cell types. The Ig domain of TIM-3 interacts with a ligand on resting but not activated Th1 and Th2 cells. The glycosylated Ig domain of TIM-3 binds cell-associated galectin-9. This induces TIM-3 Tyr phosphorylation and pro-apoptotic signaling. TIM-3 functions as a negative regulator of Th1 cell activity. Its blockade results in increased IFN-gamma production, Th1 cell proliferation and cytotoxicity, regulatory T cell development, and increases in macrophage and neutrophil infiltration into sites of inflammation.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

ELISA (For coating, order antibody without BSA);,Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 min at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

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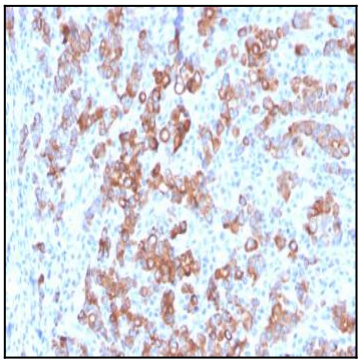


Fig. 1: Formalin-fixed, paraffin-embedded human Adrenal stained with TIM3 Mouse Monoclonal Antibody (TIM3/3113).

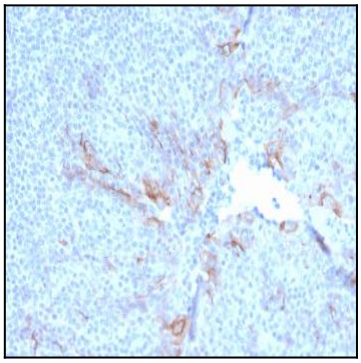


Fig. 2: Formalin-fixed, paraffin-embedded human Tonsil stained with TIM3 Mouse Monoclonal Antibody (TIM3/3113).

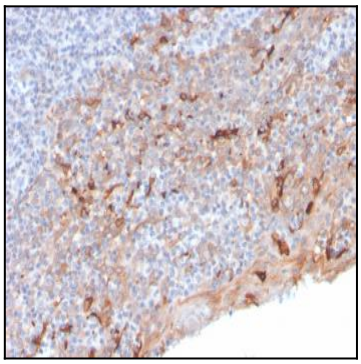


Fig. 3: Formalin-fixed, paraffin-embedded human Tonsil stained with TIM3 Mouse Monoclonal Antibody (TIM3/3113).

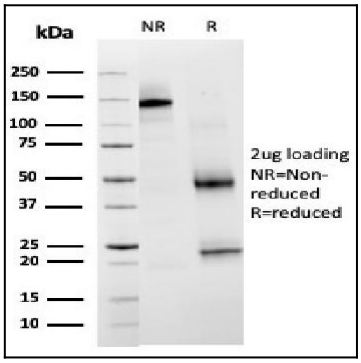


Fig. 4: SDS-PAGE Analysis Purified TIM3 Mouse Monoclonal Antibody (TIM3/3113). Confirmation of Purity and Integrity of Antibody.

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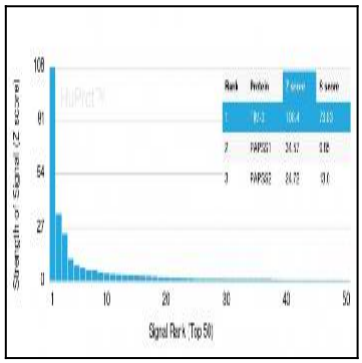


Fig. 5: Analysis of Protein Array containing more than 19,000 full-length human proteins using TIM-3 Mouse Monoclonal Antibody (TIM3/3113) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

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