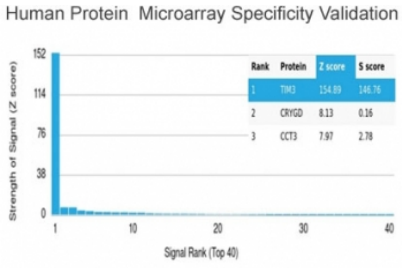
# TIM-3 Antibody / HAVCR2 [clone TIM3/4027] (V9177)

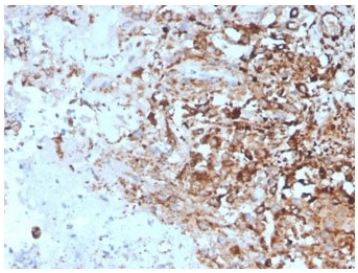
| Catalog No. | Formulation | Size |
|---|---|---|
| V9177-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V9177-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug |
| V9177SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

**Bulk quote request**

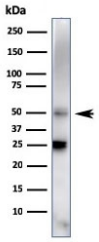
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG2b, kappa |
| **Clone Name** | TIM3/4027 |
| **Purity** | Protein A/G affinity |
| **UniProt** | Q8TDQ0 |
| **Localization** | Cell Surface |
| **Applications** | Western blot: 1-2ug/ml<br>Immunohistochemistry (FFPE): 1-2ug/ml |
| **Limitations** | This TIM-3 antibody is available for research use only. |



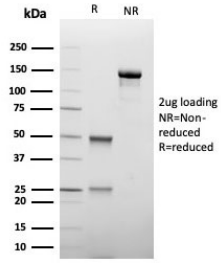

Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using TIM-3 antibody (clone TIM3/4027). These results demonstrate the foremost specificity of the TIM3/4027 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



IHC staining of FFPE human lymph node with TIM-3 antibody (clone TIM3/4027). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.




Western blot testing of human spleen tissue lysate using TIM-3 antibody (clone TIM3/4027). Expected molecular weight: 33-70 kDa depending on glycosylation level.




SDS-PAGE analysis of purified, BSA-free TIM-3 antibody (clone TIM3/4027) as confirmation of integrity and purity.

## 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 cell tonsil, lymph node or spleen. ls (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.

## Application Notes

Optimal dilution of the TIM-3 antibody should be determined by the researcher.

## Immunogen

A portion of amino acids 22-202 was used as the immunogen for the TIM-3 antibody.

## Storage

Aliquot the TIM-3 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Copyright © NSJ Bioreagents. All rights reserved.