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# Datasheet for ABIN6939306 anti-TIGIT antibody (AA 22-141)

3 Images



### Overview

Quantity:	100 µg
Target:	TIGIT
Binding Specificity:	AA 22-141
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TIGIT antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC), Coating (Coat), Staining Methods (StM)

## Product Details

Immunogen:	Recombinant fragment (around aa 22-141) of human TIGIT protein (exact sequence is proprietary)
Clone:	TIGIT-3106
Isotype:	IgG2b kappa
Purification:	Purified by Protein A/G

## Target Details

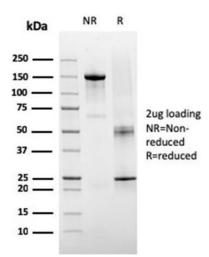
Target:	TIGIT
Alternative Name:	TIGIT (TIGIT Products)
Background:	TIGIT is a checkpoint inhibitor which binds with high affinity to the poliovirus receptor (PVR),

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# Target Details

	causing increased IL10 secretion, decreased IL12B secretion. TIGIT binding to PVR also causes the suppression of T cell activation by promoting the generation of mature immuno-regulatory dendritic cells. It is expressed at low levels on natural killer (NK) cells, as well as peripheral memory and regulatory CD4+ T cells. At the protein level, it is upregulated following the activation of these cells. Functionally, TIGIT is similar to CTLA4. The ligands for TIGIT include CD155 (signal abrogation) and CD226 (signal stimulation). It has been demonstrated to be upregulated on T cells in many cancers and is a immuno-oncology target for therapy.
Molecular Weight:	26kDa
Gene ID:	201633
Pathways:	Cancer Immune Checkpoints
Application Details	
Application Notes:	Positive Control: Tonsil or Prostate Carcinoma.
	Known Application: ELISA (For coating, order antibody without BSA),Immunohistochemistry
	(Formalin-fixed) (1-2 $\mu$ g/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires
	boiling tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 10-20 min followed by
	cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only
Handling	
Concentration:	200 μg/mL
Buffer:	10 mM PBS with0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	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. No MSDS required.
Expiry Date:	24 months

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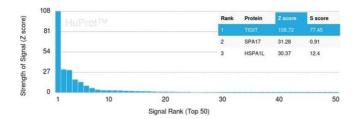
#### SDS-PAGE

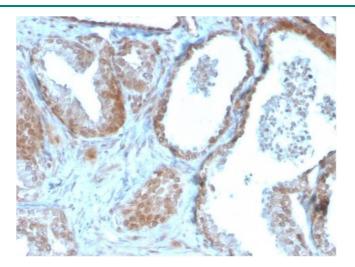
**Image 1.** SDS-PAGE Analysis Purified TIGIT-Monospecific Mouse Monoclonal Antibody (TIGIT/3106). Confirmation of Integrity and Purity of Antibody.

#### **Protein Array**

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using TIGIT-Monospecific Mouse Monoclonal Antibody (TIGIT/3106). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (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 (SDs) 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 SDs) between the Z-score. Sscore therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody 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 Monoclonal Antibody to protein X is equal to 29.

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#### Immunohistochemistry

**Image 3.** Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with TIGIT-Monospecific Mouse Monoclonal Antibody (TIGIT/3106).

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