

**TIGIT Antibody [10B1] (biotin)**  
Catalog # ASC12155

**Specification**

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**TIGIT Antibody [10B1] (biotin) - Product Information**

Application	E
Primary Accession	<a href="#">O495A1</a>
Other Accession	<a href="#">NP_776160</a>
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1

**TIGIT Antibody [10B1] (biotin) - Additional Information**

Gene ID	201633
Alias Symbol	TIGIT
<b>Other Names</b>	
TIGIT Antibody: T-cell immunoreceptor with Ig and ITIM domains, VSIG9, VSTM3, WUCAM	

**Reconstitution & Storage**

TIGIT antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

**Precautions**

TIGIT Antibody [10B1] (biotin) is for research use only and not for use in diagnostic or therapeutic procedures.

**TIGIT Antibody [10B1] (biotin) - Protein Information**

**Name** TIGIT

**Synonyms** VSIG9, VSTM3

**Function**

Binds with high affinity to the poliovirus receptor (PVR) which causes increased secretion of IL10 and decreased secretion of IL12B and suppresses T-cell activation by promoting the generation of mature immunoregulatory dendritic cells.

**Cellular Location**

Cell membrane; Single-pass type I membrane protein

**Tissue Location**

Expressed at low levels on peripheral memory and regulatory CD4+ T-cells and NK cells and is up-regulated following activation of these cells (at protein level)

## **TIGIT Antibody [10B1] (biotin) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **TIGIT Antibody [10B1] (biotin) - Images**

## **TIGIT Antibody [10B1] (biotin) - Background**

TIGIT Antibody: The T cell immunoreceptor with Ig and ITIM domains (TIGIT) is a member of the PVR (poliovirus receptor) family of immunoglobulin proteins. It is expressed on several classes of T cells including follicular B helper T cells (TFH). TIGIT has been shown to bind PVR with high affinity; this binding is thought to assist interactions between TFH and dendritic cells to regulate T cell dependent B cell responses (1). Similar to other immune checkpoint proteins such as PD-1, TIGIT is upregulated on exhausted T cells in chronic viral infections and cancer. Blockade of both TIGIT and PD-1 pathways leads to tumor rejection in mice suggesting that it may be of therapeutic use against cancer (2).

## **TIGIT Antibody [10B1] (biotin) - References**

Stanietsky N, Simic H, Arapovic J, et al. The interaction of TIGIT with PVR and PVRL2 inhibits human NK cell cytotoxicity. Proc Natl Acad Sci USA 2009; 106:17858-63. Johnston RJ, Comps-Agrar L, Hackney J, et al. The immunoreceptor TIGIT regulates antitumor and antiviral CD8(+) T cell effector function. Cancer Cell 2014; 26:923-37.