

TIGIT Antibody [4A12]
Catalog # ASC12153**Specification****TIGIT Antibody [4A12] - Product Information**

Application	WB, IHC-P, IF, ICC, E
Primary Accession	Q495A1
Other Accession	NP_776160
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	Predicted: 26 kDa
	Observed: 47 kDa KDa

TIGIT Antibody [4A12] - Additional Information

Gene ID	201633
Alias Symbol	TIGIT
Other Names	
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 [4A12] is for research use only and not for use in diagnostic or therapeutic procedures.

TIGIT Antibody [4A12] - 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 [4A12] - 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 [4A12] - Images

TIGIT Antibody [4A12] - 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 [4A12] - 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.