

## Anti-TIGIT Monoclonal Antibody [4A10]

Catalog Number: M01962-1

### About TIGIT

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).

### Overview

Product Name	Anti-TIGIT Monoclonal Antibody [4A10]
Reactive Species	Human
Description	Boster Bio Anti-TIGIT Monoclonal Antibody [4A10] (Catalog # M01962-1). Tested in ELISA, WB, IHC-P, ICC, IF, Flow Cytometry applications. This antibody reacts with Human.
Application	ELISA, Flow Cytometry, IF, IHC-P, ICC, WB
Clonality	Monoclonal Clone: 4A10
Formulation	TIGIT Antibody is supplied in PBS containing 0.02% sodium azide and 50% glycerol.
Storage Instructions	TIGIT antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Mouse
Uniprot ID	Q495A1

### Technical Details

Immunogen	TIGIT antibody was raised against the extracellular domain of human TIGIT
Predicted Reactive Species	Mouse, Rat
Cross Reactivity	beta-Actin antibody is human, mouse, rat, rabbit, chicken, zebrafish and drosophila reactive.
Isotype	IgG1
Form	Liquid
Concentration	1 mg/mL
Purification	TIGIT Antibody is supplied as protein A purified IgG1.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this

kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

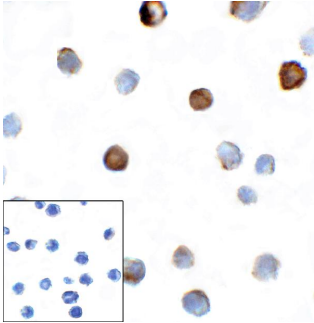
Boster Bio's internal QC testing used:

TIGIT antibody can be used for immunohistochemistry starting at 2 ug/mL. For immunofluorescence start at 1 ug/mL. For flow cytometry at 1 ug/ml. For immunocytochemistry at 1 ug/mL. For Western blot at 1 ug/mL.

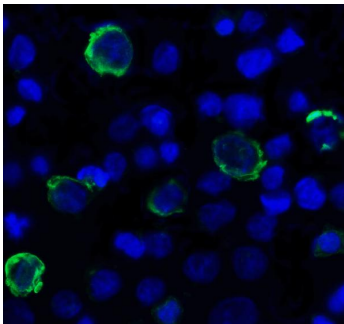
Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples;

Immunocytochemistry in human samples; Immunofluorescence in human samples and Flow Cytometry in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

## Anti-TIGIT Monoclonal Antibody [4A10] (M01962-1) Images

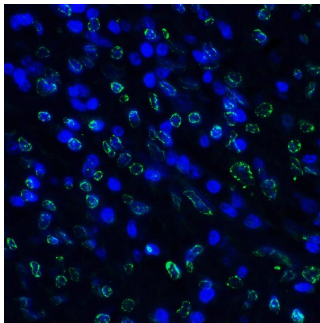


Immunocytochemistry of TIGIT in over expressing HEK293 cells using TIGIT antibody and control mouse IgG antibody (left corner box) at 1 ug/ml.



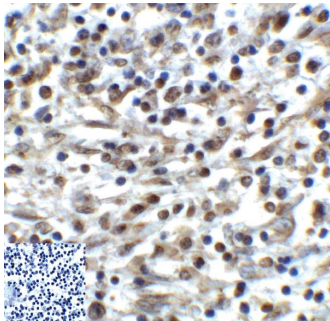
Immunofluorescence of TIGIT in over expressing HEK293 cells using TIGIT Antibody at 1 ug/ml.

Green: TIGIT Antibody [4A10] (RF16054)  
Blue: DAPI staining



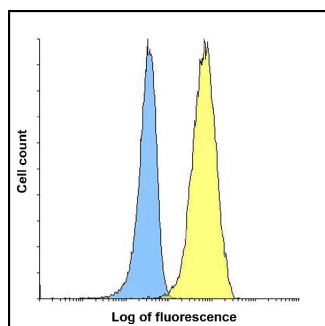
Immunofluorescence of TIGIT in human stomach carcinoma tissue using TIGIT Antibody at 5 ug/ml.

Green: TIGIT Antibody [4A10] (RF16054)  
Blue: DAPI staining



Immunohistochemistry of TIGIT in human stomach carcinoma tissue using TIGIT Antibody and control mouse IgG (corner box) at 2 ug/ml.

Flow cytometry analysis of TIGIT over expressing HEK293 cells using TIGIT antibody at 1 ug/ml. Blue: untransfected HEK293 cells. Yellow: TIGIT over expressing HEK293 cells.



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