

Anti-TIGIT Monoclonal Antibody [7E5]

Catalog Number: M01962

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

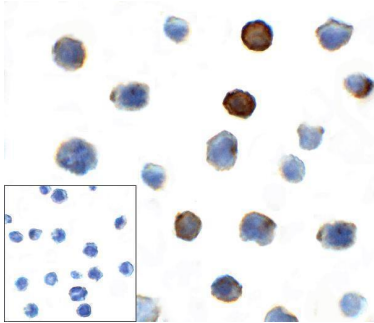
Product Name	Anti-TIGIT Monoclonal Antibody [7E5]
Reactive Species	Human
Description	Boster Bio Anti-TIGIT Monoclonal Antibody [7E5] (Catalog # M01962). Tested in ELISA, IHC-P, ICC, IF, Flow Cytometry applications. This antibody reacts with Human.
Application	ELISA, Flow Cytometry, IF, IHC-P, ICC
Clonality	Monoclonal Clone: 7E5
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

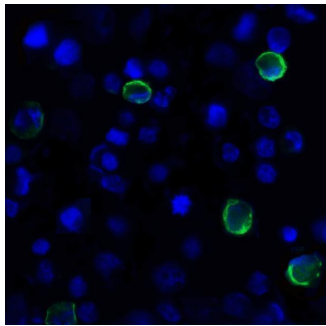
Immunogen	TIGIT antibody was raised against the extracellular domain of human TIGIT.
Predicted Reactive Species	Mouse, Rat
Isotype	IgG2b
Form	Liquid
Concentration	1 mg/mL
Purification	TIGIT Antibody is supplied as protein A purified IgG2b.
Suggested Dilutions	TIGIT antibody can be used for immunohistochemistry starting at 2 - 5 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: 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.

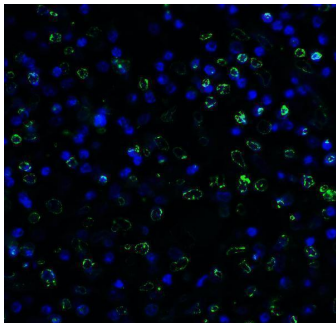
Anti-TIGIT Monoclonal Antibody [7E5] (M01962) Images



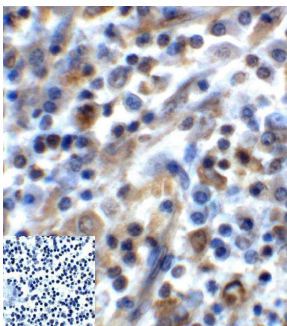
Immunocytochemistry of TIGIT in over expressing HEK293 cells using TIGIT antibody and control mouse IgG antibody (left corner box) at 1 ug/ml.



Immunofluorescence of TIGIT in over expressing HEK293 cells using TIGIT Antibody at 1 ug/ml. Green: TIGIT Antibody [7E5] (M01962) Blue: DAPI staining

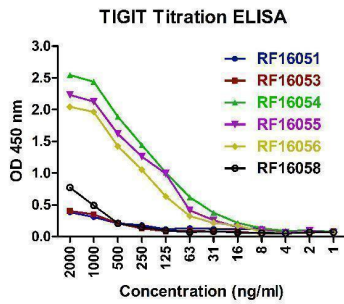
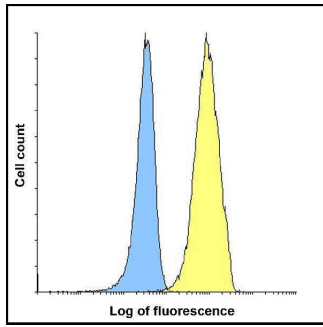


Immunofluorescence of TIGIT in human stomach carcinoma tissue using TIGIT Antibody at 5 ug/ml. Green: TIGIT Antibody [7E5] (M01962) Blue: DAPI staining



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.



Titration curve analysis of TIGIT mAbs to detect recombinant TIGIT in ELISA with M01962, RF16053, RF16054, RF16055, RF16056 and RF16058 antibodies at decreasing concentrations.

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