

Product datasheet for **TA355124**

TIGIT Mouse Monoclonal Antibody [Clone ID: 4A12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	4A12
Applications:	FC, IF, IHC, WB
Recommended Dilution:	IHC start at 2 ug/mL. IF start at 1 ug/mL. FC start at 1 ug/mL. ICC start at 1 ug/mL. WB start at 1 ug/mL.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	TIGIT antibody was raised against the extracellular domain of human TIGIT
Formulation:	TIGIT Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	TIGIT Antibody is supplied as protein A purified IgG1.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	Predicted: 26 kDa; Observed: 47 kDa
Gene Name:	T-cell immunoreceptor with Ig and ITIM domains
Database Link:	NP_776160 Entrez Gene 201633 Human Q495A1



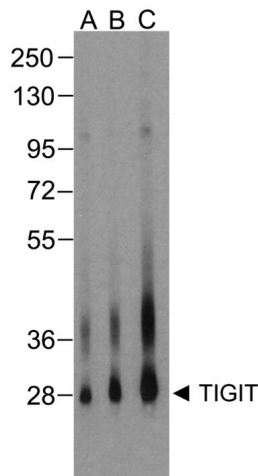
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Background:

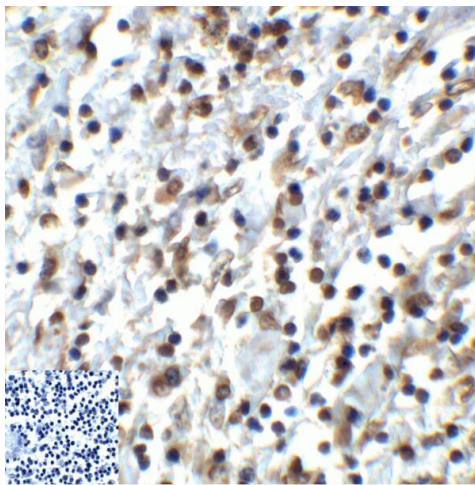
TIGIT Antibody: The T cell immunoreceptor with Ig and ITIM domains (TIGIT) is a member of the PVR (poliovirus receptor) family of immunoglobulin proteins. It is expressed on several classes of T cells including follicular B helper T cells (TFH). TIGIT has been shown to bind PVR with high affinity; this binding is thought to assist interactions between TFH and dendritic cells to regulate T cell dependent B cell responses. 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.

Synonyms:

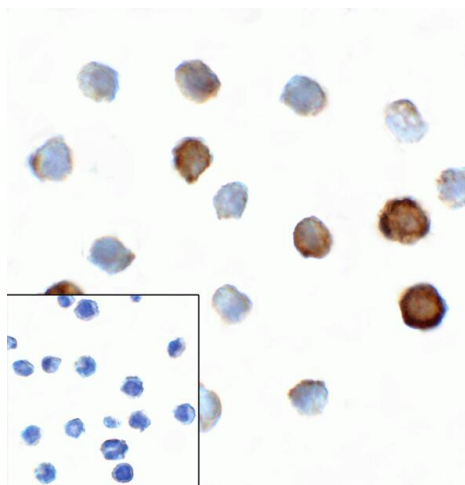
DKFZp667A205; FLJ39873; VSIG9; VSTM3; WUCAM

Product images:


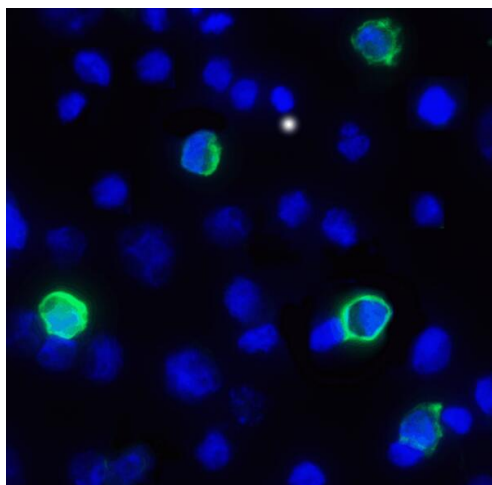
Western blot analysis of TIGIT in over expressing HEK293 cells using RF16056 antibody at (A) 0.25 ug/ml, (B) 0.5 ug/ml, and (C) 1 ug/ml.



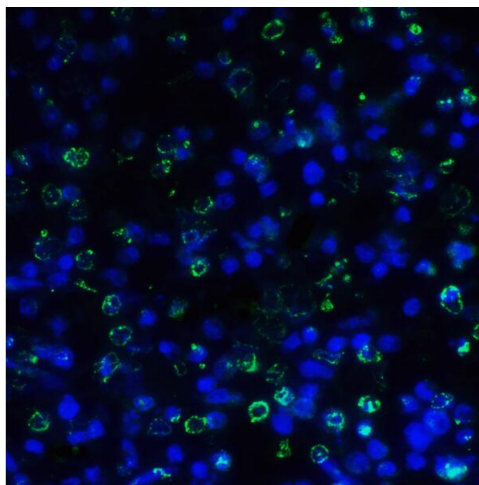
Immunohistochemistry of TIGIT in human stomach carcinoma tissue using TIGIT Antibody and control mouse IgG (corner box) at 2 ug/ml.



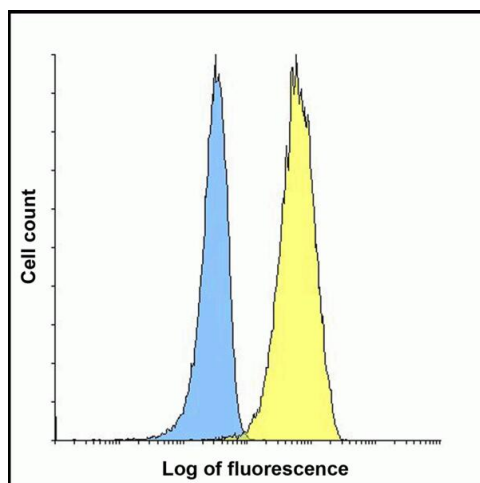
Immunocytochemistry of TIGIT in over expressing HEK293 cells using TIGIT antibody and control mouse IgG antibody (left corner box) at 1 ug/ml.



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



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