BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-LAG3 Monoclonal Antibody [2G8]

Catalog Number: M02869-1

About LAG3

The lymphocyte activation gene-3 (LAG3) is a member of the immunoglobulin superfamily and binds MHC class II with high affinity (1), negatively regulating T-cell function and homeostasis (2). It is expressed in B, T, and NK cells, monocytes, and dendritic cells (3), and acts to regulate T cell expansion (4). LAG3 is also an important immune checkpoint protein, with anti-LAG3 antibodies activating T effector cells and affecting regulatory T cell functions. Furthermore LAG3 appears to act in a synergistic fashion with PD-1/PD-L1, suggesting that a dual antibody approach may prove useful in cancer immunotherapy.

Overview

Product Name	Anti-LAG3 Monoclonal Antibody [2G8]
Reactive Species	Human
Description	Boster Bio Anti-LAG3 Monoclonal Antibody [2G8] (Catalog # M02869-1). 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: 2G8
Formulation	LAG-3 Antibody is supplied in PBS containing 0.02% sodium azide and 50% glycerol.
Storage Instructions	LAG-3 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	P18627

Technical Details

Immunogen	LAG-3 antibody was raised against the extracellular domain of human LAG-3
Predicted Reactive Species	Mouse, Rat
Isotype	IgG1,k
Form	Liquid
Concentration	1 mg/mL
Purification	LAG-3 Antibody is supplied as protein A purified IgG1.
Suggested Dilutions	LAG-3 antibody can be used for ELISA starting at 0.25 ug/mL. For Western blot start at 0.25 ug/mL. For Immunocytochemistry start at 1 ug/mL. For Immunofluorescence start at 10 ug/mL. For Immunohistochemistry start at 5 ug/mL. For Flow Cytometry start at 1 ug/ml.

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	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.

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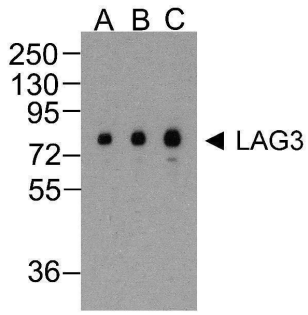
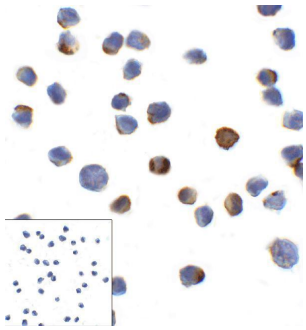
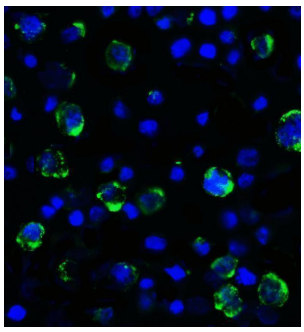
Anti-LAG3 Monoclonal Antibody [2G8] (M02869-1) Images



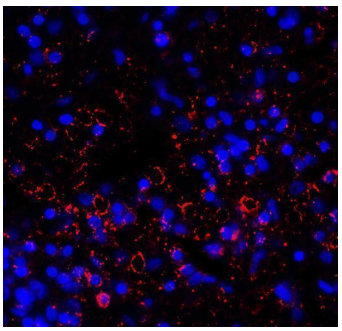
Western blot analysis of LAG-3 in over expressing HEK293 cells using LAG-3 antibody at (A) 0.25 (B) 0.5 and (C) 1 ug/ml.



Immunocytochemistry of LAG-3 in over expressing HEK293 cells using LAG-3 antibody and control mouse IgG antibody (left corner box) at 1 ug/ml.



Immunofluorescence of LAG-3 in over expressing HEK293 cells using LAG-3 Antibody at 2 ug/ml.Green: LAG3 Antibody [2G8] (M02869-1) Blue: DAPI staining



Immunofluorescence of LAG-3 in over human spleen tissue using LAG-3 Antibody at 10 ug/ml.Red: LAG3 Antibody [2G8] (M02869-1) Blue: DAPI staining

Immunohistochemistry of LAG-3 in human lymphoma tissue using LAG-3 Antibody and control mouse IgG (corner box) at 5 ug/ml.

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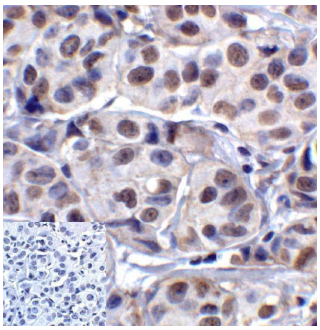
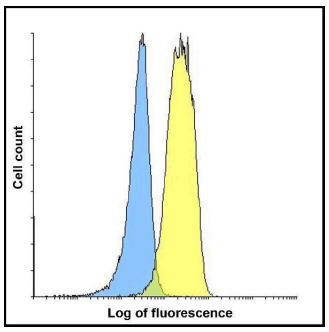
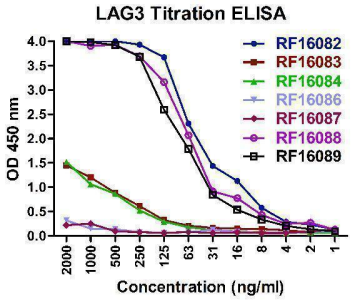
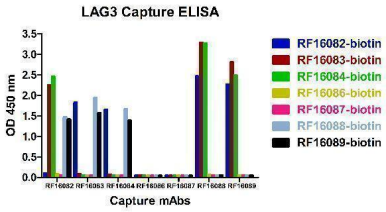




Flow cytometry analysis of LAG-3 over expressing HEK293 cells using LAG-3 antibody at 1 ug/ml. Blue: untransfected HEK293 cells. Yellow: LAG-3 over expressing HEK293 cells.



Titration curve analysis of LAG-3 mAbs to detect recombinant LAG-3 in ELISA with M02869-1, RF16083, RF16084, RF16086, RF16087, RF16088, and RF16089 antibodies at decreasing concentrations.



A sandwich ELISA was performed using the anti-LAG3 mAbs M02869-1, RF16083, RF16084, RF16086, RF16087 and RF16088 as the capture antibodies for the LAG3 extracellular domain antigen with biotin-labeled Risk-Free anti-LAG3 mAbs as the detection antibodies.

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