

# TIGIT Monoclonal Antibody (MBSA43), Functional Grade, eBioscience™

Product Details	
Size	100 µg
Species	Human
Published Species	Human, Mouse
Expression System	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MBSA43
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage Conditions	4° C
RRID	AB_10718831

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	11 Publications
Functional Assay (FN)	Assay-Dependent	-
Immunofluorescence (IF)	-	1 Publication
Western Blot (WB)	-	1 Publication

## Product Specific Information

Description: The MBSA43 monoclonal antibody reacts with human T cell immunoreceptor with Ig and ITIM domains (TIGIT), which is also known as VSTM3 or WUCAM. This 26 kDa protein is a member of the poliovirus receptor (PVR) family. The expression of TIGIT has been reported on NK cells, regulatory T cells, follicular T helper cells, memory CD4+ T cells, and CD8+ T cells, but it is not expressed on B cells or naive CD4+ T cells. TIGIT may be upregulated on naive CD4+ T cells upon activation. TIGIT can interact with certain members of the PVR and PVR-like families, including CD155, and also mediates the interaction of NK and T cells with antigen presenting cells, fibroblasts, and endothelial cells that express PVR and PVR-like proteins.

MBSA43 is reported to crossreact with Rhesus macaque.

Applications Reported: This MBSA43 antibody has been reported for use in flow cytometric analysis. In a functional assay, MBSA43 enhances IFN gamma secretion following TCR activation.

Applications Tested: This MBSA43 antibody has been tested by flow cytometric analysis. This can be used at less than or equal to

0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Storage and handling: Use in a sterile environment.

Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

## 13 References

### Flow Cytometry (11)

#### Oncoimmunology

#### TIGIT expressing CD4+T cells represent a tumor-supportive T cell subset in chronic lymphocytic leukemia.

"Published figure using TIGIT monoclonal antibody (Product # 16-9500-82) in Flow Cytometry"

Authors: Catakovic K,Gassner FJ,Ratswohl C,Zaborsky N,Rebhandl S,Schubert M,Steiner M,Gutjahr JC,Pleyer L,Egle A,Hartmann TN,Greil R,Geisberger R

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2020

#### Frontiers in oncology

#### A Comprehensive Analysis of Key Immune Checkpoint Receptors on Tumor-Infiltrating T Cells From Multiple Types of Cancer.

"Published figure using TIGIT monoclonal antibody (Product # 16-9500-82) in Flow Cytometry"

Authors: Li X,Wang R,Fan P,Yao X,Qin L,Peng Y,Ma M,Asley N,Chang X,Feng Y,Hu Y,Zhang Y,Li C,Fanning G,Jones S,Verrill C,Maldonado-Perez D,Sopp P,Waugh C,Taylor S,Mcgowan S,Cerundolo V,Conlon C,McMichael A,Lu S,Wang X,Li N,Dong T

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2020

[View more Flow references on thermofisher.com](#)

### Immunofluorescence (1)

#### BMC cancer

#### Nitric oxide donors increase PVR/CD155 DNAM-1 ligand expression in multiple myeloma cells: role of DNA damage response activation.

"16-9500 was used in Immunofluorescence to explore the anti-myeloma activity of nitric oxide donors."

Authors: Fionda C,Abruzzese MP,Zingoni A,Soriani A,Ricci B,Molfetta R,Paolini R,Santoni A,Cippitelli M

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2015

### Western Blot (1)

#### BMC cancer

#### Nitric oxide donors increase PVR/CD155 DNAM-1 ligand expression in multiple myeloma cells: role of DNA damage response activation.

"16-9500 was used in Immunofluorescence to explore the anti-myeloma activity of nitric oxide donors."

Authors: Fionda C,Abruzzese MP,Zingoni A,Soriani A,Ricci B,Molfetta R,Paolini R,Santoni A,Cippitelli M

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2015

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