

# Anti-Mouse TIGIT (1G9)

Catalog Number: 65079-1-Ig

## Basic Information

<b>Catalog Number:</b> 65079-1-Ig	<b>GenBank Accession Number:</b> NM_001146325	<b>Purification Method:</b> Affinity purification
<b>Size:</b> 100ug,	<b>GeneID (NCBI):</b> 100043314	<b>CloneNo.:</b> 1G9
<b>Source:</b> Mouse	<b>Full Name:</b> T cell immunoreceptor with Ig and ITIM domains	
<b>Isotype:</b> IgG1		

## Applications

**Tested Applications:**  
FC

**Species Specificity:**  
Mouse

## Background Information

TIGIT (T-cell immunoreceptor with Ig and ITIM domains), also known as VSIG9 or VSTM3, is an immune receptor expressed on T cells, including Treg and memory subsets, as well as on NK cells (PMID: 19011627). It contains an immunoglobulin variable domain, a transmembrane domain and an immunoreceptor tyrosine-based inhibitory motif (ITIM). TIGIT binds to poliovirus receptor (PVR, also called CD155) with high affinity, and also to PVRL2 (CD112) with lower affinity. The interaction of TIGIT with PVR on dendritic cells increases the secretion of IL-10 and decreases the secretion of proinflammatory cytokine and suppresses T-cell activation by promoting the generation of mature immunoregulatory dendritic cells. TIGIT can inhibit NK cytotoxicity directly through its ITIM (PMID: 19815499).

## Storage

**Storage:**  
Store at 2-8°C.

**Storage Buffer:**  
10 mM NaH<sub>2</sub>PO<sub>4</sub>, 150 mM NaCl, 0.09% NaN<sub>3</sub>, 0.1% gelatin, pH7.2.

