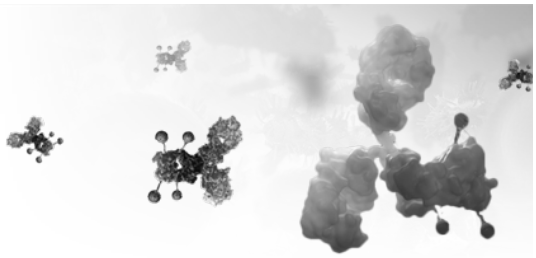

Mouse Anti-Mouse TIGIT Monoclonal antibody, clone 1G9 (CABT-L4298)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	The 1G9 monoclonal antibody reacts with mouse TIGIT (T cell immunoreceptor with Ig and ITIM domains). TIGIT is a 26 kDa, type I transmembrane protein and a member of the poliovirus receptor (PVR) family. TIGIT has been found to be expressed on follicular T helper cells in mice while in humans it's expressed by many T cell subsets including activated T cells, follicular T helper cells, memory T cells, and regulatory T cells as well as on NK cells. TIGIT can interact with certain members of the PVR and PVR-like families, including PVR, PVRL2, PVRL3, CD155, and CD112. TIGIT is thought to negatively regulate NK and T cell activation. Binding of TIGIT on T cells by dendritic cells results in their differentiation into a tolerogenic phenotype, with increased secretion of IL-10 and diminished production of IL-12. TIGIT knock-out mice are more susceptible to autoimmune disease.
Target	Mouse TIGIT
Immunogen	Mouse TIGIT
Isotype	IgG1, κ
Source/Host	Mouse
Species Reactivity	Mouse
Clone	1G9
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo TIGIT blockade, in vitro TIGIT blockade, FC

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Molecular Weight	150 kDa
Format	0.2 μM filtered liquid. Purified from tissue culture supernatant in an animal free facility
Concentration	Lot specific
Size	5 mg
Buffer	PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free] Endotoxin level: <2EU/mg (<0.002EU/μg). Determined by LAL gel clotting assay Related dilution buffer: CABT-LB04
Preservative	None
Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	Binds with high affinity to the poliovirus receptor (PVR) which causes increased secretion of IL10 and decreased secretion of IL12B and suppresses T cell activation by promoting the generation of mature immunoregulatory dendritic cells.
Keywords	TIGIT;T cell immunoreceptor with Ig and ITIM domains;V set and immunoglobulin domain containing 9;V set and transmembrane domain containing 3;VSIG9, VSTM3;T-cell immunoreceptor with Ig and ITIM domains;DKFZp667A205;FLJ39873;V-set and transmembrane domain containing 3;V-set and immunoglobulin domain containing 9

GENE INFORMATION

Official Symbol	T cell immunoreceptor with Ig and ITIM domains
Synonyms	TIGIT; T cell immunoreceptor with Ig and ITIM domains; V set and immunoglobulin domain containing 9; V set and transmembrane domain containing 3; VSIG9, VSTM3; T-cell immunoreceptor with Ig and ITIM domains; DKFZp667A205; FLJ39873; V-set and transmembrane domain containing 3; V-set and immunoglobulin domain containing 9
References	Trsan, T., et al. (2017). "Cytomegalovirus vector expressing RAE-1gamma induces enhanced anti-tumor capacity of murine CD8+ T cells." Eur J Immunol 47(8): 1354-1367. PubMed;

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