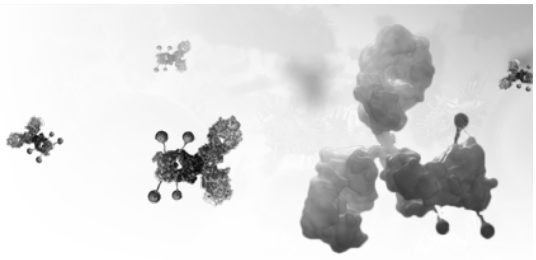

Armenian Hamster Anti-Mouse TL1A (TNFSF15) Monoclonal antibody, clone 5G4.6 (CABT-L4547)

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

PRODUCT INFORMATION

Product Overview	The 5G4.6 monoclonal antibody reacts with the TNF family member TL1A, also known as TNFSF15. TL1A is expressed on activated T cells, dendritic cells, monocytes and endothelial cells. TL1A expression has been shown to be induced by pro-inflammatory stimuli such as TNF α and IL-1α. In contrast to the TNFα receptors, which are expressed on essentially all cells, the receptor for TL1A, DR3 (TNFRSF25), is primarily expressed on T cells, NK cells, and NKT cells, thereby limiting the effects of TL1A. TL1A-DR3 interactions are thought to promote effector T cell proliferation at the site of inflammation and in draining lymph nodes. Blockade of TL1A-DR3 interactions strikingly reduces pathology in several animal models in which autoreactive T cells play a role. TL1A has been linked to inflammatory bowel disease. The 5G4.2 antibody has been shown to block TL1A binding to DR3 and reduce disease severity in mouse models of colitis.
Target	Mouse TL1A (TNFSF15)
Immunogen	Recombinant murine TL1A
Isotype	IgG
Source/Host	Armenian Hamster
Species Reactivity	Mouse
Clone	5G4.6
Purification	Protein A purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

Applications	in vivo TL1A neutralization, FC
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	Human TL-1A or TNF Ligand-Related Molecule 1A, also known as Tumor Necrosis Factor Ligand Superfamily Member 15, is a homotrimeric 251 amino acid cytokine expressed from the TNFSF15 gene located at locus 9q32 on chromosome 9. Inducible by TNF and IL-1α, TL-1A is abundantly expressed in endothelial cells but is not expressed in either B- or T-cells. This cytokine is a ligand for receptor TNFRSF25 and decoy receptor TNFRSF21/DR6. It can activate NF-κB and MAP kinases, and can also act as an autocrine factor to induce apoptosis in endothelial cells. Moreover, TL-1A cytokine has been found to inhibit endothelial cell proliferation, and thus may function as an angiogenesis inhibitor.
Keywords	TNF Ligand-Related Molecule 1A;TL1A

GENE INFORMATION

Official Symbol	TNF Ligand-Related Molecule 1A
Synonyms	TNF Ligand-Related Molecule 1A; TL1A
References	Richard, A. C., et al. (2015). "The TNF-family ligand TL1A and its receptor DR3 promote T cell-mediated allergic immunopathology by enhancing differentiation and pathogenicity of IL-9-producing T cells." J Immunol 194(8): 3567-3582. PubMed;

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