



Rat Anti-Mouse Galectin-9 Monoclonal antibody, clone RG9-1 (CABT-L4480)

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

PRODUCT INFORMATION

Product Overview

The RG9-1 monoclonal antibody reacts with mouse galectin-9 a 40 kDa S-type lectin that is expressed by various cell types including lymphocytes, thymocytes, macrophages, dendritic cells, astrocytes, mast cells, eosinophils, fibroblasts, epithelial cells, and endothelial cells. Galectin-9 binds to β -galactosides and can serve as a ligand for TIM-3 (CD366). The protein is implicated in both innate and adaptive immune responses specifically, induction of cytokine secretion by macrophages, bactericidal functions, promotion of dendritic cell maturation, regulatory T cell expansion, and negative regulation of Th1, Th17, NK, and cytotoxic T cells. The RG9-1 antibody has been reported to block some biological activities of Galectin-9 when administered in vivo.

Target	Mouse Galectin-9
Immunogen	Recombinant mouse galectin-9
Isotype	IgG2b, κ
Source/Host	Rat
Species Reactivity	Mouse
Clone	RG9-1
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo Galectin-9 blockade in vitro?Galectin-9 blockade
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 galactosides. Has high affinity for the Forssman pentasaccharide. May play a role in thymocyte-epithelial interactions relevant to the biology of the thymus. Inhibits cell proliferation. It is a ligand for HAVCR2/TIM3. Induces T-helper type 1 lymphocyte (Th1) death. Isoform Short acts as an eosinophil chemoattractant.
Keywords	LGALS9;lectin, galactoside-binding, soluble, 9;HUAT;LGALS9A;galectin-9;gal-9;ecalectin;galectin 9;tumor antigen HOM-HD-21;urate transporter/channel protein;

GENE INFORMATION

Official Symbol	lectin, galactoside-binding, soluble, 9
Synonyms	LGALS9; lectin, galactoside-binding, soluble, 9; HUAT; LGALS9A; galectin-9; gal-9; ecalectin; galectin 9; tumor antigen HOM-HD-21; urate transporter/channel protein;
References	de Mingo Pulido, A., et al. (2018). "TIM-3 Regulates CD103(+) Dendritic Cell Function and Response to Chemotherapy in Breast Cancer." Cancer Cell 33(1): 60-74 e66. PubMed;