Datasheet for ABIN7072508

Recombinant anti-Galectin 9 antibody

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Overview

Quantity:	200 µg
Target:	Galectin 9 (LGALS9)
Reactivity:	Mouse
Host:	Rat
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This Galectin 9 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP), Blocking Peptide (BP), Functional Studies (Func)

Product Details

Purpose:	Anti-Galectin 9 [RG9-35], Rat IgG2a, kappa
Immunogen:	This antibody was raised by immunising rats with recombinant mouse galectin-9.
Clone:	RG9-35
Isotype:	IgG2a kappa
Specificity:	This antibody is specific for murine 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

Product Details

	expansion, and negative regulation of Th1, Th17, NK, and cytotoxic T cells.
Characteristics:	Original Species of Ab: Rat Original Format of Ab: IgG2a
Purification:	Protein A affinity purified

Target Details

Target:	Galectin 9 (LGALS9)
Alternative Name:	Galectin 9 (LGALS9 Products)
Background:	Ecalectin, Gal-9, galectin 9, Galectin-9, HUAT, lectin, galactose binding, soluble 5, LGALS9A, tumor antigen HOM-HD-21, urate transporter/channel protein.
UniProt:	O08573

Application Details

Application Notes:	When this antibody was first generated and characterised, it was shown to bind with galectin-9 (Gal-9) but not with either galectin-1 or galectin-3. Furthermore, it was shown to be capable of blocking Tim-3-Fc binding to Gal-9, and inhibiting Gal-9-induced Th1 cell death ***in vitro*** (Fukushima et al., 2008, PMID: 18087160). This antibody has been used in FACS analyses. For instance, to describe a novel mechanism where Tim-3 binds HMGB-1 on virus-specific $CD8^+$ Treg cells, suppressing proliferation of $CD8^+$ T effector cells during acute adenoviral infection (Dolina et al., 2014, PMID: 24677194), and to indicate a crucial role for Tim-3 in phagocytosis of apoptotic cells and cross-presentation (Nakayama et al., 2009, PMID: 19224762). In addition, this antibody has been used ***in vivo*** to study the roles of Gal-9 in the development of experimental allergic conjunctivitis in mice (Fukushima et al., 2008, PMID: 18087160) and to demonstrate that constitutive expression of Gal-9 plays an immunosuppressive role in corneal allografts (Shimmura-Tomita et al., 2013, PMID: 23667648). This antibody was used in a cold immunoprecipitation (IP) assay to explore the binding of Gal-Nab1 and Gal-Nab2 to native murine gal-9, using a protein extract from murine thymus as the source of native Gal-9, RG9-35, was one of the antibodies used to isolate immune complexes formed between primary antibodies and proteins extracted from a mouse thymus for further analysis (Lhuillier et al., 2018, PMID: 30204750).
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	PBS with 0.02 % Proclin 300.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.