CLEC10A Antibody – Rabbit Monoclonal

PRODUCT OVERVIEW

Product Name	CLEC10A, Monoclonal Antibody
Full Product Name	Recombinant Anti-CLEC10A Antibody, Rabbit Monoclonal
Product Gene Name	anti-CLEC10A antibody
Product Synonym Names	CLEC10A/MGL1/CD301 Antibody, Rabbit MAb; C-type lectin domain family 10, member A; Anti-CD301a Antibody; Anti-M-ASGP-BP-1 Antibody; Anti-Mgl Antibody; Anti-Mgl1 Antibody
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	019
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A
Specificity	Mouse CLEC10A/MGL1/CD301
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Molecular Weight	34,596 Da
3D Structure	ModBase 3D Structure for P49300
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Mouse CLEC10A/MGL1/CD301 Protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Mouse CLEC10A/MGL1/CD301 (rM CLEC10A/MGL1/CD301).
Applications Tested/Suitable for anti-CLEC10A antibody	ELISA (EIA)
Application Notes for anti-CLEC10A antibody	ELISA: 1:5000-1:10,000
Related Product Information for anti-CLEC10A antibody	CLEC10A, also known as the macrophage galactose-type calcium-type lectins (MGLs; CD301) constitute a unique class of C-type lectins because of their specificity for galactose and its structural homologues. MGLs/CD301 is a type II transmembrane glycoproteins and is expressed on macrophages and related cells of myeloid origins, particularly immature dendritic cells (DCs). There are 2 homologues: MGL1 and MGL2 (CD301a and CD301b) in mice. MGL1/CD301a induces both the production and secretion of interleukin (IL)-10. MGL1/CD301a plays a protective role against colitis by effectively inducing IL-10 production by colonic lamina propria macrophages in response to invading commensal bacteria.

Product References and Citations for anti-CLEC10A antibody	Saba K, et al. (2009) A C-type lectin MGL1/CD301a plays an anti-inflammatory role in murine experimental colitis. Am J Pathol. 174(1): 144-52.Suzuki N, et al. (2002) Molecular cloning and expression of cDNA encoding human macrophage C-type lectin: its unique carbohydrate binding specificity for Tn antigen. J Immunol. 1996;156: 128-135.Tsuiji M, et al. (2002) Molecular cloning and characterization of a novel mouse macrophage C-type lectin, mMGL2, which has a distinct carbohydrate specificity from mMGL1. J Biol Chem. 277: 28892-28901.Denda-Nagai K, et al. (2002) Macrophage C-type lectin on bone marrow-derived immature dendritic cells is involved in the internalization of glycosylated antigens. Glycobiology. 12: 443-450.
Other Notes	Small volumes of anti-CLEC10A antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CLEC10A purchase	MBS8111951 is an antibody targeting CLEC10A. Also known as Recombinant Anti-CLEC10A Antibody, Rabbit Monoclonal. Reactive in Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CLEC10A. It may not necessarily be applicable to this product.

NCBI GI #	324021665
NCBI GeneID	17312
NCBI Accession #	NP_001191181.1
UniProt Primary Accession #	P49300
UniProt Secondary Accession #	Q549F6; Q91YT3
UniProt Related Accession #	P49300
GenBank Nucleotide #	NM_001204252.1
NCBI Official Full Name	C-type lectin domain family 10 member A isoform 1
NCBI Official Synonym Full Names	C-type lectin domain family 10, member A
NCBI Official Symbol	Clec10a
NCBI Official Synonym Symbols	Mgl; Mgl1; CD301a; M-ASGP-BP-1
UniProt Protein Name	C-type lectin domain family 10 member A
UniProt Synonym Protein Names	MMGL; Macrophage asialoglycoprotein-binding protein 1; M-ASGP-BP-1; Macrophage galactose/N-acetylgalactosamine-specific lectin
Protein Family	C-type lectin domain family
UniProt Gene Name	Clec10a
UniProt Synonym Gene Names	Mgl; Mgl1; M-ASGP-BP-1
NCBI Protein Information	C-type lectin domain family 10 member A
UniProt Comments for CLEC10A	Recognizes terminal galactose and N-acetylgalactosamine units. May participate in the interaction between tumoricidal macrophages and tumor cells. Plays a role in the recruitment of inflammatory monocytes to adipose tissue in diet-induced obesity.
Research Articles on CLEC10A	**1.** Macrophage Galactose-Type Lectin-1 Deficiency Is Associated with Increased Neutrophilia and Hyperinflammation in Gram-Negative Pneumonia
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