



Rat Anti-Mouse CLEC9A (CD370) Monoclonal antibody, clone 7H11 (CABT-L4533)

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

PRODUCT INFORMATION

Product Overview

The 7H11 monoclonal antibody reacts with mouse CLEC9A (C-type lectin domain family member 9A). CLEC9A, also known as DNGR1 (dendritic cell natural killer lectin group receptor 1) and CD370, is a type II transmembrane glycoprotein with a single extracellular C-type lectin domain. DNGR-1 is restricted in its expression, being found only on CD8α+, CD103+, CD11b – subsets of DCs and plasmacytoid DCs. CLEC9A reportedly functions as an endocytic receptor for necrotic cells. It can mediate the cross-presentation of dead-cell associated antigens by dendritic cells in a Syk-dependent manner. It has been shown that targeting antigen to DNGR-1 on DC's via coupling antigen to the 7H11 antibody can result in activation of antigen specific CD8+ T cell responses in vivo.

Target	Mouse CLEC9A (CD370)
Immunogen	RBL-2H3 cells expressing mouse CLEC9A fused to an HA epitope
Isotype	IgG1, κ
Source/Host	Rat
Species Reactivity	Mouse
Clone	7H11
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo Ag targeting to CLEC9A+ DCs WB ELISA IP IF 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	CLEC9A is a group V C-type lectin-like receptor (CTLR) that functions as an activation receptor and is expressed on myeloid lineage cells (Huysamen et al., 2008 [PubMed 18408006]).[supplied by OMIM, Aug 2008]
Keywords	CLEC9A;C-type lectin domain family 9, member A;DNGR1;UNQ9341;C-type lectin domain family 9 member A;HEEE9341;

GENE INFORMATION

Official Symbol	C-type lectin domain family 9, member A
Synonyms	CLEC9A; C-type lectin domain family 9, member A; DNGR1; UNQ9341; C-type lectin domain family 9 member A; HEEE9341;
References	Picco, G., et al. (2014). "Targeting DNGR-1 (CLEC9A) with antibody/MUC1 peptide conjugates as a vaccine for carcinomas." Eur J Immunol 44(7): 1947-1955. PubMed;