

Anti-CLEC9A [1F6]

Catalogue number: 151705

Sub-type: Primary antibody

Images:

Contributor

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Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-CLEC9A [1F6]

Alternate name: C-Type Lectin Domain Family 9 Member A; HEEE9341; UNQ9341; DNGR-1; CD37; DNGR1

Class: Monoclonal

Conjugate: Unconjugated

Description: Monoclonal antibody directed against DNGR-1 marker for CD8+ dendritic cells, which can be exploited for tumour therapy, whilst also recognising necrotic cells.

Purpose:

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype: IgG1

Reactivity: Mouse

Selectivity:

Host: Rat

Immunogen: RBL-2H3 cells expressing mouse DNGR-1 fused to an HA epitope

Immunogen UNIPROT ID: Q8BRU4

Sequence:

Growth properties:

Production details:

Formulation:

Recommended controls: Mouse IgG1 isotype-matched control mAbs

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: Mouse DNGR1

Target alternate names:

Target background: This antibody recognises mouse DNGR-1, also known as CLEC9A, which is a highly specific marker of the CD8a+ and the CD103+ DC subsets, as well as a receptor able to recognise a preformed signal exposed on necrotic cells. DNGR-1 was found to be expressed in mice at high levels by CD8+ DCs and at low levels by plasmacytoid DCs, but not by other hematopoietic cells. DNGR-1 is a novel, highly specific marker of mouse and human DC subsets that can be exploited for CTL cross-priming and tumour therapy. DNGR-1 ligation is required for effective cross-presentation of dead-cell-associated antigen by recruitment and activation of the tyrosine kinase Syk. DNGR-1 recognizes filamentous actin in association with particular actin-binding domains of cytoskeletal proteins, including spectrin, exposed when cell membranes are damaged. This antibody can recognise both the short and long isoform of DNGR-1, which vary in a segment of the stalk region.

Molecular weight:

Ic50:

Applications

Application: FACS ; IF ; WB

Application notes:

Handling

Format: Liquid

Concentration: 1 mg/ml

Passage number:

Growth medium:

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer: PBS with 0.02% azide

Storage conditions: Store at -20° C frozen. Avoid repeated freeze / thaw cycles

Shipping conditions: Shipping at 4° C

Related tools

Related tools:

References

References: Joffre et al. 2010. Eur J Immunol. 40(5):1255-65. PMID: 20333625. ; Efficient and versatile manipulation of the peripheral CD4+ T-cell compartment by antigen targeting to DNGR-1/CLEC9A. ; Sancho et al. 2009. Nature. 458(7240):899-903. PMID: 19219027. ; Identification of a dendritic cell receptor that couples sensing of necrosis to immunity. ; Sancho et al. 2008. J Clin Invest. 118(6):2098-110. PMID: 18497879. ; Tumor therapy in mice via antigen targeting to a novel, DC-restricted C-type lectin.

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