

Anti-DC-SIGN

Catalogue number: 153596

Sub-type:

Images:

Contributor

Inventor: Ayham Alnabulsi

Institute: Vertebrate Antibodies Limited

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-DC-SIGN

Alternate name: C-type lectin domain family 4, CLEC4T1, DC-SIGN, CD29

Class: Polyclonal

Conjugate: Unconjugated

Description: The C-type lectin domain containing (CLEC) receptors including CD209 are expressed in vivo by monocytes, monocyte-derived macrophages and dendritic cells and by in vitro generated monocyte-derived cells. Johansson et al 2016, reports the cloning and sequencing of a lectin molecule, CLEC4T1, in rainbow trout that is a homologue of the CLEC4 family. The expression pattern of the CLEC4T1 was investigated in vivo after infection with a bacterial pathogen and in cultured macrophages after modulation with microbial mimics. Trout CLEC4T1 was highly expressed in spleen and head kidney following infection with *Yersinia ruckeri*. Expression could also be induced in macrophage cultures by LPS but not by Poly I:C, and suggests that the regulation of CLEC4T1 expression in trout varies according to the nature of the stimulant. A polyclonal CLEC4T1 antibody was generated and validated by Western blotting for use in evaluation of CLEC4T1+ cells by flow cytometry analysis. Freshly isolated adherent trout head kidney cultures, potentially containing macrophages and dendritic cell precursors, showed an increase of CLEC4T1+ cells (assessed by FACS) upon stimulation with recombinant interleukin-4/13A. The results suggest that CLEC4T1 is a useful marker for further characterisation of monocyte derived antigen presenting cells in fish.

Purpose:

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype:

Reactivity:

Rainbow Trout

Selectivity:

Host: Rabbit

Immunogen: Peptide sequences Ä?Ë???Â???Â? CLTKERDQLQKENEN (92% identical to Atlantic Salmon) and CNWGRGQPNGNNGTD (71% identical to Atlantic Salmon)

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details:

Formulation:

Recommended controls: ELISA- Peptide immunogen, Western Blot- spleen and head kidney lysates, IHC- formalin-fixed, paraffin-embedded tissue sections kidney tissues, FACS- trout spleen and head kidney leukocytes

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: C-type lectin domain family 4

Target alternate names:

Target background: The C-type lectin domain containing (CLEC) receptors including CD209 are expressed in vivo by monocytes, monocyte-derived macrophages and dendritic cells and by in vitro generated monocyte-derived cells. Johansson et al 2016, reports the cloning and sequencing of a lectin molecule, CLEC4T1, in rainbow trout that is a homologue of the CLEC4 family. The expression pattern of the CLEC4T1 was investigated in vivo after infection with a bacterial pathogen and in cultured macrophages after modulation with microbial mimics. Trout CLEC4T1 was highly expressed in spleen and head kidney following infection with *Yersinia ruckeri*. Expression could also be induced in macrophage cultures by LPS but not by Poly I:C, and suggests that the regulation of CLEC4T1 expression in trout varies according to the nature of the stimulant. A polyclonal CLEC4T1 antibody was generated and validated by Western blotting for use in evaluation of CLEC4T1+ cells by flow cytometry analysis. Freshly isolated adherent trout head kidney cultures, potentially containing macrophages and dendritic cell precursors, showed an increase of CLEC4T1+ cells (assessed by FACS) upon stimulation with recombinant interleukin-4/13A. The results suggest that CLEC4T1 is a useful marker for further characterisation of monocyte derived antigen presenting cells in fish.

Molecular weight:

Ic50:

Applications

Application: FACS ; WB

Application notes:

Handling

Format: Liquid

Concentration: 0.9-1.1mg/ml

Passage number:

Growth medium:

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer: PBS with 0.02% azide

Storage conditions: -20° C

Shipping conditions: Shipping at 4° C

Related tools

Related tools:

References

References:

CancerTools.org