

Siglec-1 (CD169) KO mouse

Catalogue number: 154180

Sub-type: Mouse

Images:

Contributor

Inventor: Paul Crocker

Institute: University of Dundee

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Siglec-1 (CD169) KO mouse

Alternate name: CD169, Sialic Acid Binding IgG Like Lectin 1, Sialoadhesin, SN

Class:

Conjugate:

Description: Siglec-1 is a transmembrane receptor and the prototypic member of the Siglec family of sialic acid binding immunoglobulin-like lectins. It is expressed on specialised subsets of resident macrophages in hematopoietic and lymphoid tissues, and on inflammatory macrophages. Sialoadhesin predominantly binds neutrophils, but can also bind monocytes, natural killer cells, B cells and a subset of cytotoxic T cells by interacting with sialic acid molecules in the ligands on their surfaces

Purpose:

Parental cell:

Organism:

Tissue:

Model: Knock-Out

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details: KO mice were generated by targeting the Siglec 1 gene in embryonic stem (ES) cells by homologous recombination. The Siglec 1 homology region was subcloned from a phage library

of 129/Sv mouse genomic DNA. A 4.9kb EcoRI fragment was cloned into the multiple cloning site of vector pTZ18U. The Siglec 1 gene was disrupted by insertion of a neomycin resistance gene expression cassette into the unique XhoI site in exon III. For negative selection a Sall/XhoI diphtheria toxin A expression cassette fragment was cloned from pSP72-TKPro-DTA-polyA into the Sall site within the multiple cloning site 5' of the homology region. Construct were linearized with Sall prior to transfection into R1 mouse ES cells. G418 resistant clones were screened for homologous recombination by Southern blot using an XbaI-EcoRI probe. Two independently obtained ES were used for blastocyst injection and the resulting chimeric mice were bred to C57Bl/6 and backcrossed for eight generations

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: Siglec-1

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application:

Application notes:

Handling

Format:
Concentration:
Passage number:
Growth medium:
Temperature:
Atmosphere:
Volume:
Storage medium:
Storage buffer:
Storage conditions:
Shipping conditions: Embryo/Spermatozoa- Dry Ice

Related tools

Related tools:

References

References:

CancerTools.org