

Siglec-F KO mouse

Catalogue number: 154182

Tool type:

Contributor

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Institute: University of Dundee

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Siglec-F KO mouse

Alternate name: Siglec-8, Sialic Acid Binding Ig Like Lectin 8, SAF-2,

Class:

Conjugate:

Description: Siglecs-8 and -F are paralogous membrane proteins highly expressed on human and mouse eosinophils respectively. They are members of the CD33-related sialic acid binding Ig-like lectin family and contain immunoreceptor tyrosine based inhibitory motifs (ITIM) and ITIM-like motifs in their cytoplasmic tails that are implicated in negative regulatory functions

Purpose:

Parental cell:

Organism:

Tissue:

Model: Knock-Out

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details: Siglec FR114D knock in mice, carrying an Arg114 to Asp mutation in the Siglec F gene predicted to abolish sialic acid binding were generated by Taconic Artemis using C57Bl/6 ES cells (targeting strategy illustrated in PMID: 24698729). Further crossing of homozygous Siglec FR114D mice with Tg (Nes-Cre)1Wme/J(Bal1-Cre) mice produced offspring with mosaicism/partial deletion of exons 6-9 in adult organs (including germline) resulting in the truncated Siglec F knock out

allele. Mosaic offspring were then used to generate Siglec F KO mice

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes:

Patient details

Cancer subtype:

Cancer stage/grade:

Biopsy site:

Patient ethnicity:

Treatment history:

Engraftment details

Mice passaged?:

Engraftment site:

Sample type:

Host strain:

Histology:

Genetic data:

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Target details

Target: Siglec-F

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/Spermatoza- Dry Ice

Related tools

Related tools:

References

References: McMillan et al. 2013. Blood. 121(11):2084-94. PMID: 23315163. ; Siglec-E is a negative regulator of acute pulmonary neutrophil inflammation and suppresses CD11b β 2-integrin-dependent signaling.

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