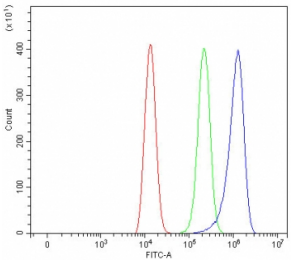
SIGLEC12 Antibody (RQ7693)

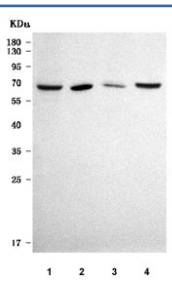
Catalog No.	Formulation	Size
RQ7693	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q96PQ1
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This SIGLEC12 antibody is available for research use only.



Flow cytometry testing of human HEL cells with SIGLEC12 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= SIGLEC12 antibody.



Western blot testing of 1) human HEL, 2) mouse spleen, 3) rat spleen and 4) mouse RAW264.7 cell lysate with SIGLEC12 antibody. Predicted molecular weight ~65 kDa.

Description

Sialic acid-binding Ig-like lectin 12, or Siglec-XII, is a protein that in humans, is encoded by the SIGLEC12 gene. Sialic acid-binding immunoglobulin-like lectins (SIGLECs) are a family of cell surface proteins belonging to the immunoglobulin superfamily. They mediate protein-carbohydrate interactions by selectively binding to different sialic acid moieties present on glycolipids and glycoproteins. This gene encodes a member of the SIGLEC3-like subfamily of SIGLECs. Members of this subfamily are characterized by an extracellular V-set immunoglobulin-like domain followed by two C2-set immunoglobulin-like domains, and the cytoplasmic tyrosine-based motifs ITIM and SLAM-like. The encoded protein, upon tyrosine phosphorylation, has been shown to recruit the Src homology 2 domain-containing protein-tyrosine phosphatases SHP1 and SHP2. It has been suggested that the protein is involved in the negative regulation of macrophage signaling by functioning as an inhibitory receptor. This gene is located in a cluster with other SIGLEC3-like genes on 19q13.4. Alternative splicing results in multiple transcript variants.

Application Notes

Optimal dilution of the SIGLEC12 antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids S31-H287) was used as the immunogen for the SIGLEC12 antibody.

Storage

After reconstitution, the SIGLEC12 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.