

Siglec-10 (N-25): sc-130267

BACKGROUND

Siglec-10 (sialic acid-binding Ig-like lectin 10) is a 697 amino acid protein belonging to the immunoglobulin superfamily. The N-terminal Ig-like domain of Siglec-10 contains a sialic acid-binding site and the C-terminal cytoplasmic region of Siglec-10 contains two immunoreceptor tyrosine-based inhibitor motifs (ITIMs), which are involved in the modulation of cellular responses through SH2 domains. With most expression in spleen, bone marrow and peripheral blood lymphocytes, such as monocytes, natural killer cells and eosinophils, it is likely that Siglec-10 functions as an inhibitory receptor in the immune response. Importantly, Siglec-10 mRNA is found to be highly upregulated in eosinophils at sites of inflammation in asthmatics, suggesting that Siglec-10 may be an appropriate target for new approaches of immunomodulatory therapy. There are six named isoforms of Siglec-10 that are a result of alternative splicing. All isoforms exist as single-pass transmembrane proteins, except for isoform 6, which is secreted.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SIGLEC10 (human) mapping to 19q13.41.

SOURCE

Siglec-10 (N-25) is a purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of Siglec-10 of human origin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Siglec-10 (N-25) is recommended for detection of Siglec-10 of human origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

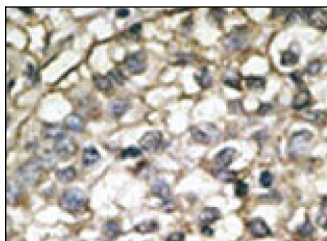
Suitable for use as control antibody for Siglec-10 siRNA (h): sc-97663, Siglec-10 shRNA Plasmid (h): sc-97663-SH and Siglec-10 shRNA (h) Lentiviral Particles: sc-97663-V.

Molecular Weight of Siglec-10: 77 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941. 2) Immunohistochemistry: use ImmunoCruz[™]: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



Siglec-10 (N-25): sc-130267. Immunoperoxidase staining of formalin fixed, paraffin-embedded human cancer tissue showing cytoplasmic staining.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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Try **Siglec-10 (1D11): sc-293355**, our highly recommended monoclonal alternative to Siglec-10 (N-25).