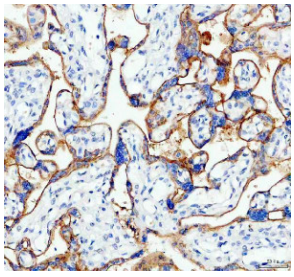
SIGLEC6 Antibody / Sialic Acid Receptor Antibody (FY13482)

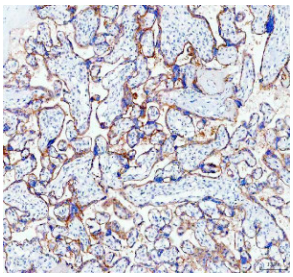
Catalog No.	Formulation	Size
FY13482	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Species Reactivity	Human
Format	Lyophilized
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	O43699
Applications	Immunohistochemistry (FFPE): 2-5ug/ml
Limitations	This SIGLEC6 Antibody / Sialic Acid Receptor Antibody is available for research use only.



SIGLEC6 Antibody Human Placental Tissue IHC. Immunohistochemistry was performed on FFPE human placenta tissue using SIGLEC6 Antibody. Heat-induced epitope retrieval was performed in pH 8 EDTA buffer prior to incubation with the primary antibody at 2 ug/ml. Bound antibody was visualized using an HRP-conjugated goat anti-rabbit IgG secondary antibody with DAB chromogen. At higher magnification, strong membranous staining with moderate cytoplasmic immunoreactivity is evident in placental trophoblasts, highlighting the characteristic cellular localization of SIGLEC6 within placental tissue. These results demonstrate that this Sialic Acid Receptor Antibody is suitable for immunohistochemical detection of SIGLEC6 in formalin-fixed, paraffin-embedded human placenta tissue.



SIGLEC6 Antibody Human Placenta IHC. Immunohistochemistry was performed on FFPE human placenta tissue using SIGLEC6 Antibody. Heat-induced epitope retrieval was performed in pH 8 EDTA buffer prior to incubation with the primary antibody at 2 ug/ml. Bound antibody was visualized using an HRP-conjugated goat anti-rabbit IgG secondary antibody with DAB chromogen. Distinct membranous staining is observed in placental trophoblasts, with additional moderate cytoplasmic immunoreactivity, consistent with the well-established expression pattern of SIGLEC6 in placental tissue. These results demonstrate that this Sialic Acid Receptor Antibody is suitable for immunohistochemical detection of SIGLEC6 in formalin-fixed, paraffin-embedded human placenta tissue.

Description

SIGLEC6 Antibody recognizes sialic acid binding immunoglobulin like lectin 6 (SIGLEC6), also known as CD327, a member of the SIGLEC family of cell surface receptors that regulate immune cell signaling through recognition of sialic acid-containing glycans. SIGLEC6 is a type I transmembrane glycoprotein containing extracellular immunoglobulin-like domains responsible for glycan binding and intracellular signaling motifs that modulate immune responses. Although initially identified in placental tissue, SIGLEC6 is also expressed by subsets of B lymphocytes, mast cells, and additional specialized immune cell populations. NSJ Bioreagents supplies SIGLEC6 Antibody for reliable detection of this important sialic acid receptor in diverse research applications.

SIGLEC6 participates in regulation of immune activation by recognizing sialylated glycoconjugates present on host cells, thereby contributing to immune self-recognition and maintenance of immune homeostasis. The receptor contains immunoreceptor tyrosine-based inhibitory motifs within its cytoplasmic domain that recruit phosphatases capable of dampening activating signaling pathways following ligand engagement. Through these mechanisms, SIGLEC6 influences B cell receptor signaling, mast cell activation, cytokine production, and cellular responses to the extracellular glycan environment. Consequently, SIGLEC6 Antibody is widely used to investigate glycoimmunology, inhibitory receptor biology, and mechanisms that regulate innate and adaptive immune responses.

Beyond normal immune regulation, SIGLEC6 has attracted increasing interest in oncology because it is expressed in several hematologic malignancies and selected solid tumors, including subsets of acute myeloid leukemia and chronic lymphocytic leukemia. Its restricted expression profile and cell surface localization have made SIGLEC6 an attractive candidate for antibody-based therapeutics and targeted immunotherapies. Researchers also investigate SIGLEC6 in placental biology, maternal-fetal immune tolerance, and pregnancy-associated signaling, reflecting its distinctive physiological expression pattern. These diverse biological functions continue to expand interest in SIGLEC6 across immunology, cancer biology, and glycobiology research.

A SIGLEC6 Antibody is a valuable reagent for investigating immune regulation, glycan recognition, inhibitory receptor signaling, and cell surface biology. By enabling reliable detection of this sialic acid receptor, a SIGLEC6 Antibody supports research into immune homeostasis, cancer immunology, placental biology, and the molecular mechanisms that govern glycan-mediated cellular communication.

Explore additional antibodies involved in immune cell regulation and signaling on our Immunology Antibodies page.

Application Notes

Optimal dilution of the SIGLEC6 Antibody / Sialic Acid Receptor Antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human Sialic acid binding Ig-like lectin 6 (amino acids R18-D197) was used as the immunogen for the SIGLEC6 Antibody.

Storage

After reconstitution, the SIGLEC6 Antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

CD327 antibody, Sialic Acid Binding Ig Like Lectin 6 antibody, Sialic Acid Binding Immunoglobulin Like Lectin 6 antibody, OBBP1 antibody, OB Binding Protein 1 antibody, Siglec-6 antibody

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