

**Anti-Siglec-2 / CD22 Reference Antibody (inotuzumab)
Recombinant Antibody
Catalog # APR10138**

Specification

Anti-Siglec-2 / CD22 Reference Antibody (inotuzumab) - Product Information

Application	FC, E, FTA
Primary Accession	P20273
Reactivity	Cynomolgus, Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	146.48 KDa

Anti-Siglec-2 / CD22 Reference Antibody (inotuzumab) - Additional Information

Target/Specificity
Siglec-2 / CD22

Endotoxin
< 0.001EU/ µg,determined by LAL method.

Conjugation
Unconjugated

Expression system
CHO Cell

Format
Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

Storage
-80°C for 2 years under sterile conditions □ -20°C for 1 year under sterile conditions □ Avoid repeated freeze-thaw cycles.

Anti-Siglec-2 / CD22 Reference Antibody (inotuzumab) - Protein Information

Name CD22 {ECO:0000303|PubMed:1691828, ECO:0000312|HGNC:HGNC:1643}

Function
Most highly expressed siglec (sialic acid-binding immunoglobulin-like lectin) on B-cells that plays a role in various aspects of B-cell biology including differentiation, antigen presentation, and trafficking to bone marrow (PubMed:8627166, PubMed:34330755). Binds to alpha 2,6-linked sialic acid residues of surface molecules such as CD22 itself, CD45 and IgM in a cis configuration. Can also bind to ligands on other cells as an adhesion molecule in a trans configuration (PubMed:20172905). Acts as an

inhibitory coreceptor on the surface of B-cells and inhibits B-cell receptor induced signaling, characterized by inhibition of the calcium mobilization and cellular activation. Mechanistically, the immunoreceptor tyrosine-based inhibitory motif domain is phosphorylated by the Src kinase LYN, which in turn leads to the recruitment of the protein tyrosine phosphatase 1/PTPN6, leading to the negative regulation of BCR signaling (PubMed:8627166). If this negative signaling from is of sufficient strength, apoptosis of the B-cell can be induced (PubMed:20516366).

Cellular Location

Cell membrane; Single-pass type I membrane protein

Tissue Location

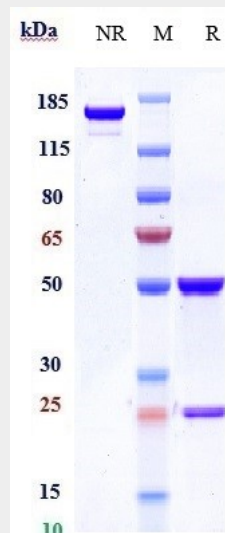
B-lymphocytes.

Anti-Siglec-2 / CD22 Reference Antibody (inotuzumab) - Protocols

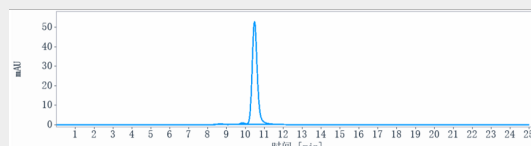
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Siglec-2 / CD22 Reference Antibody (inotuzumab) - Images



Anti-Siglec-2 / CD22 Reference Antibody (inotuzumab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



The purity of Anti-Siglec-2 / CD22 Reference Antibody (inotuzumab) is more than 96.81% ,determined by SEC-HPLC.