PA007299.h1Fs: Non-conjugated Recombinant Anti-human Siglec-2/CD22 Monoclonal Antibody (Clone: NCI m971) for Flow Cytometry, Human IgG1 Fc Silent Kappa, In vivo Grade

Catalog No.: PA007299.h1Fs | **Product Name:** Recombinant Anti-human Siglec-2/CD22 Monoclonal Antibody (Clone: NCI m971), Human IgG1 Fc Silent Kappa

Recombinant mouse IgG2a isotype controls are available. Condition of sample preparation and optimal sample dilution should be determined experimentally by the investigator.

PRODUCT SPECIFICATIONS

Catalog No.	PA007299.h1Fs
Product Name	Recombinant Anti-human Siglec-2/CD22 Monoclonal Antibody (Clone: NCI m971), Human IgG1 Fc Silent Kappa
Supplier Name	Syd Labs, Inc.
Brand Name	Syd Labs
Synonyms	cluster of differentiation 22
Clone	NCI m971.
Isotype	Human IgG1 Fc Silent Kappa
Source/Host	The recombinant anti-human Siglec-2/CD22 monoclonal antibody (clone: NCI m971) for Flow Cytometry was produced in mammalian cells.
Specificity/Sensitivity	The recombinant NCI m971 antibody for Flow Cytometry specifically binds to the human Siglec-2/CD22 protein.
Applications	Flow cytometry (FC), and Immunohistochemistry - Frozen (IHC-F).
Form Of Antibody	0.2 uM filtered solution, pH 7.4, containing 0.09% sodium azide.
Conjugate	Non-conjugated.
Endotoxin	Less than 1 EU/mg of protein as determined by LAL method.
Purity	>95% by SDS-PAGE under reducing conditions and HPLC.
Shipping & Storage	Shipped with ice pack. Store at 2 to 8°C as supplied (12 months from receipt). Do not freeze.

REFERENCES & BACKGROUND

The recombinant NCI m971 antibody binds to the human Siglec-2/CD22 protein, a sugar binding transmembrane protein, which specifically binds sialic acid with an immunoglobulin (Ig) domain located at its N-terminus. CD22 functions as an inhibitory receptor for B cell receptor (BCR) signaling. It is also involved in the B cell trafficking to Peyer's patches in mice. In mice, it has been shown that CD22 blockade restores homeostatic microglial phagocytosis in aging brains. Engineered with a Human IgG1 Fc-Silent domain, this format minimizes non-specific binding to Fc receptors on cell surfaces.