

TECHNICAL DATA SHEET

Recombinant Human sCD22 (Siglec-2) (Carrier-free)

Catalog Number: 21-7140

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human sCD22 (Siglec-2) (Carrier-free)

DESCRIPTION

sCD22, also known as Siglec-2 and BL-CAM, is a cell surface glycoprotein that is B-lineage restricted. It is expressed on the surface of mature B-cells and, to some extent, on immature B-cells. Siglec lectins belong to the immunoglobulin (Ig) superfamily. sCD22 is a coreceptor that binds the B-cell receptor (BCR) and acts as a negative regulator in B-cell receptor signal transduction. Loss of CD22 function may contribute to the pathogenesis of autoimmune diseases.

MOLECULAR MASS

Recombinant Human CD22 corresponds to the 660+ amino acid extracellular domain, which results in a soluble 75.0 kDa protein.

AMINO ACID SEQUENCE

SKWVFEHPET LYAWEGACVW IPCTYRALDG DLESFILFHN PEYNKNTSKF DGTRLYESTK DGKVPSEQKR VQFLGDKNKN CTLSIHPVHL
 NDSGQLGLRM ESKTEKWMER IHLNVSERPF PPHIQLPPEI QESQEVTLTC LLNFSCYGYG IQLQWLLLEGV PMRQAAVTST SLTIKSVFTR SELKFSPQWS
 HHGKIVTCQL QDADGKFLSN DTVQLNVKHT PKLEIKVTPS DAIVREGDSV TMTCEVSSSN PEYTTVSWLK DGTSLKKQNT FTLNLREVTK DQSGKYCCQV
 SNDVGPGRSE EVFLQVQYAP EPSTVQILHS PAVEGSQVEF LCMSLANPLP TNYTWYHNGK EMQGRTEEKV HIPKILPWAH GTYSCVAENI
 LGTGQRGPGA ELDVQYPPKK VTTVIQNPMP IREGDVTLS CNYNSSNPSV TRYEWKPHGA WEEPSLGVLK IQNVGWDNTT IACARCNSWC
 SWASPVALNV QYAPRDVVRV KIKPLSEIHS GNSVSLQCDF SSSHPKEVQF FWEKNGRLLG KESQLNFDSI SPEDAGSYSC WVNNSIGQTA
 SKAWTLEVLV APRRLRVSMS PGDQVMGKGS ATLTCEDAN PPVSHYTWFD WNNQSLPHHS QKLRLEPVKV QHSGAYWCQG
 TNSVGKGRSP LSTLTVYYSP ETIGRR

SOURCE

CHO cells

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

Verified by UV Spectroscopy and/or SDS-PAGE gel.

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/µg of protein (<1 EU/µg).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

N/A

BIOACTIVITY

The expected ED₅₀ of 10-17 µg/ml is determined by its capability to inhibit proliferation of Raji cells.

RESEARCH AREAS

Immune System, Cancer

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Pezzutto A, Dörken B, Moldenhauer G and Clark EA. 1987. J Immunol. 138(1): 98-103. Hatta Y, Tsuchiya N, Matsushita M, Shiota M, Hagiwara K and Tokunaga K. 1999. Immunogenetics. 49(4): 280-286. Dörner T, Shock A and Smith KG. 2012. Int Rev Immunol. 31(5): 363-378. Wallace DJ and Goldenberg DM. 2013. Lupus. 22(4): 400-405.

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