

Product datasheet for **RC231365**

CD22 (NM_001185101) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD22 (NM_001185101) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD22
Synonyms:	SIGLEC-2; SIGLEC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC231365 representing NM_001185101
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCATCTCCTCGGCCCTGGCTCCTGCTCCTGGTTCTAGAATACTTGGCTTTCTCTGACTCAAGTAAAT
GGGTTTTTGAGCACCTGAAACCCTCTACGCCTGGGAGGGGCCTGCGTCTGGATCCCCTGCACCTACAG
AGCCCTAGATGGTGACCTGGAAGCTTTCATCCTGTTCCACAATCCTGAGTATAACAAGAACACCTCGAAG
TTTGATGGGACAAGACTCTATGAAAGCACAAGGATGGGAAGGTTCTTCTGAGCAGAAAAGGTGCAAT
TCCTGGGAGACAAGAATAAGAACTGCACACTGAGTATCCACCCGGTGCACCTCAATGACAGTGGTCACT
GGGGCTGAGGATGGAGTCCAAGACTGAGAAATGGATGGAACGAATACACCTCAATGTCTCTGAAAGGCC
TTTCCACCTCATATCCAGCTCCCTCCAGAAATCAAGAGTCCCAGGAAGTCACTCTGACCTGCTTGTCTGA
ATTTCTCCTGCTATGGGTATCCGATCCAATTGCAGTGGCTCCTAGAGGGGTTCCAATGAGGAGGCTGC
TGTCACCTCGACCTCCTTGACCATCAAGTCTGTCTTACCCTGGAGCGAGCTCAAGTTCTCCACAGTGG
AGTCACCATGGGAAGATTGTGACCTGCCAGCTTCAAGATGCAGATGGGAAGTTCCCTCCAATGACACGG
TGCAGCTGAACGTGAAGCATCCTCCCAAGAAGGTGACCACAGTATTCAAACCCCATGCCGATTGAGA
AGGAGACACAGTGACCTTTCTGTAACATAAATTCCAGTAAACCCAGTGTACCCTGGATGAATGGAAA
CCCCATGGCGCCTGGGAGGAGCCATCGCTTGGGGTGTGAAGTCCAAAACGTTGGCTGGGACAACACAA
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CCCCGAGACGTGAGGGTCCGAAAAATCAAGCCCTTCCGAGATCACTCTGAAAACCGTGCAGCCTC
CAATGTGACTTCTCAAGCAGCCACCCCAAGAAGTCCAGTTCTTCTGGGAGAAAAATGGCAGGCTTCTGG
GGAAAGAAAGCCAGCTGAATTTTACTCCATCTCCCAGAAGATGCTGGGAGTTACAGCTGCTGGGTGAA
CAACTCCATAGGACAGACAGCGTCCAAGCCTGGACACTTGAAGTGTGTATGCACCCAGGAGGCTGCGT
GTGTCCATGAGCCCGGGGACCAAGTGTGAGGGGAAGAGTGAACCCCTGACCTGTGAGAGCGACGCCA
ACCCTCCCGTCTCCACTACACCTGGTTTACTGGAATAACCAAAGCCTCCCTACCACAGCCAGAAGCT
GAGATTGGAGCCGGTGAAGGTCCAGCACTCGGGTGCCTACTGGTGCCAGGGGACCAACAGTGTGGCAAG
GGCCGTTGCTCTCAGCACCTCACCGTCTACTATAGCCGGAGACCATCGGCAGGCGAGTGGCTGTGG
GACTCGGGTCTGCTCGCCATCCTCATCTGGCAATCTGTGGGCTCAAGCTCCAGCGACGTTGGAAGAG
GACACAGAGCCAGCAGGGGCTTCCAGGAGAATCCAGCGGCCAGAGCTTCTTTGTGAGGAATAAAAAGTT
AGAAGGGCCCCCTCTGAAGGCCCCACTCCCTGGGATGCTACAATCCAATGATGGAAGATGGCATT
GCTACACCACCCTGCGCTTCCCGAGATGAACATACCACGAACTGGAGATGCAGAGTCTCAGAGATGCA
GAGACCTCCCCGGACTGCGATGACACGGTCACTTATTACGATTGCACAAGCGCAAGTGGGCGACTAT
GAGAAGCTCATTCCAGATTTTCCAGAAGATGAGGGGATCATTACTCAGAGCTGATCCAGTTTGGGGTGC
GGGAGCGGCTCAGGCACAAGAAATGTGGACTATGTGATCCTCAAACAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001185101.1](#), [NP_001172030.1](#)

RefSeq ORF: 2013 bp

Locus ID: 933

UniProt ID: [P20273](#)

Cytogenetics: 19q13.12

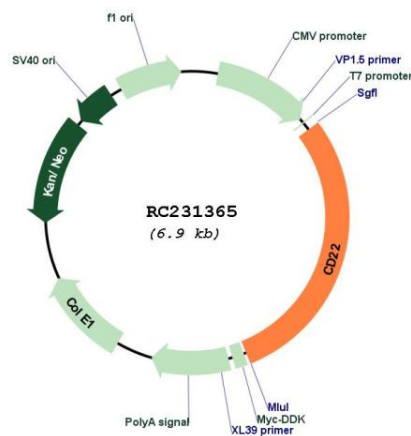
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: B cell receptor signaling pathway, Cell adhesion molecules (CAMs), Hematopoietic cell lineage

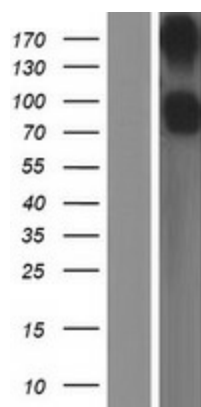
MW: 76.2 kDa

Gene Summary: Mediates B-cell B-cell interactions. May be involved in the localization of B-cells in lymphoid tissues. Binds sialylated glycoproteins; one of which is CD45. Preferentially binds to alpha-2,6-linked sialic acid. The sialic acid recognition site can be masked by cis interactions with sialic acids on the same cell surface. Upon ligand induced tyrosine phosphorylation in the immune response seems to be involved in regulation of B-cell antigen receptor signaling. Plays a role in positive regulation through interaction with Src family tyrosine kinases and may also act as an inhibitory receptor by recruiting cytoplasmic phosphatases via their SH2 domains that block signal transduction through dephosphorylation of signaling molecules. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC231365



Western blot validation of overexpression lysate (Cat# [LY434364]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC231365 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).