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**[ Primary Antibody ]**

# Rabbit Anti-CD22 antibody

**Catalog Number: SL1481R**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

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| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | CD22 |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human CD22: 701-847/847 <Cytoplasmic> |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Applications:** | ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | Human(predicted:Mouse,Rat,Dog,Cow,Horse,Rabbit) |
| **Predicted MW.:** | 91kDa |
| **Subcellular Location:** | The cell membrane |
| **Background:** | Predicted to enable CD4 receptor binding activity; protein phosphatase binding activity; and sialic acid binding activity. Involved in B cell activation; negative regulation of B cell receptor signaling pathway; and regulation of endocytosis. Located in early endosome and recycling endosome. [provided by Alliance of Genome Resources, Nov 2021] **Function:** 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 |

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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| | through dephosphorylation of signaling molecules.<br>**Subunit:** Predominantly monomer of isoform CD22-beta. Also found as heterodimer of isoform CD22-beta and a shorter isoform. Interacts with PTPN6/SHP-1, LYN, SYK, PIK3R1/PIK3R2 and PLCG1 upon phosphorylation. Interacts with GRB2, INPP5D and SHC1 upon phosphorylation. May form a complex with INPP5D/SHIP, GRB2 and SHC1.<br>**Subcellular Location:** Cell membrane; Single-pass type I membrane protein.<br>**Tissue Specificity:** B-lymphocytes.<br>**Post-translational modifications:** Phosphorylation of Tyr-762, Tyr-807 and Tyr-822 are involved in binding to SYK, GRB2 and SYK, respectively. Phosphorylation of Tyr-842 is involved in binding to SYK, PLCG2 and PIK3R1/PIK3R2.<br>Phosphorylated on tyrosine residues by LYN (By similarity).<br>**Similarity:** Belongs to the immunoglobulin superfamily. SIGLEC (sialic acid binding Ig-like lectin) family.<br>Contains 6 Ig-like C2-type (immunoglobulin-like) domains.<br>Contains 1 Ig-like V-type (immunoglobulin-like) domain.<br>**Database links:**<br>**Entrez Gene:** 933 Human<br>**Entrez Gene:** 12483 Mouse<br>**Entrez Gene:** 308501 Rat<br>Omim: 107266 Human<br>**SwissProt:** P20273 Human<br>**SwissProt:** P35329 Mouse<br>**Unigene:** 579691 Human<br>**Unigene:** 260994 Mouse |

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