

CD22 (Phospho Tyr807) Rabbit pAb

CatalogNo: YP0448 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 95kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

ELISA 1:40000

IF 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human BL-CAM around the phosphorylation site of Tyr807. AA range:776-825

Specificity

Phospho-CD22 (Y807) Polyclonal Antibody detects endogenous levels of CD22 protein only when phosphorylated at Y807. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):GDyEN

Target Information

Gene name CD22

Protein Name B-cell receptor CD22

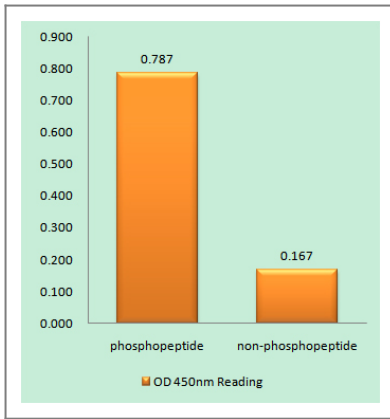
Organism	Gene ID	UniProt ID
Human	933 ;	P20273 ;
Mouse		P35329 ;

Cellular Localization Cell membrane; Single-pass type I membrane protein.

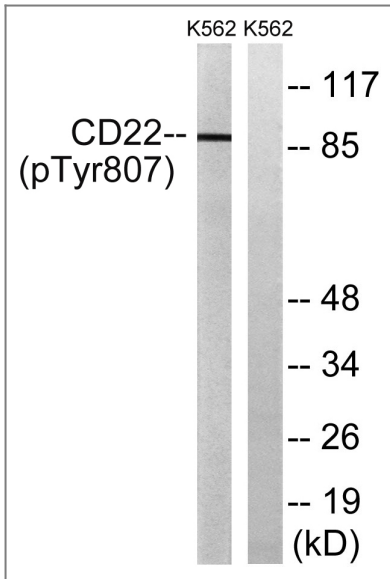
Tissue specificity B-lymphocytes.

Function Alternative products:Additional isoforms seem to exist ,Domain:Contains 4 copies of a cytoplasmic motif that is referred to as the immunoreceptor tyrosine-based inhibitor motif (ITIM) . This motif is involved in modulation of cellular responses. The phosphorylated ITIM motif can bind the SH2 domain of several SH2-containing phosphatases. ,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 through dephosphorylation of signaling molecules. ,online information:Siglec-2 ,online information:Siglec-2 [3 Fc Domains] ,PTM:Phosphorylated on tyrosine residues by LYN. ,PTM: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. ,similarity:Belongs to the immunoglobulin superfamily. SIGLEC (sialic acid binding Ig-like lectin) family. ,similarity:Contains 1 Ig-like V-type (immunoglobulin-like) domain. ,similarity:Contains 6 Ig-like C2-type (immunoglobulin-like) domains. ,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 (By similarity) . May form a complex with INPP5D/SHIP , GRB2 and SHC1. ,tissue specificity:B-lymphocytes. ,

Validation Data



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using BL-CAM (Phospho-Tyr807) Antibody



Western blot analysis of lysates from K562 cells treated with Na₃VO₄ 0.3nM 40', using BL-CAM (Phospho-Tyr807) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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Please scan the QR code to access additional product information:
CD22 (Phospho Tyr807) Rabbit pAb

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