

## CD22 Polyclonal Antibody

<b>Catalog No :</b>	YT0740
<b>Reactivity :</b>	Human;Mouse
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	CD22
<b>Fields :</b>	>>Cell adhesion molecules;>>Hematopoietic cell lineage;>>B cell receptor signaling pathway
<b>Gene Name :</b>	CD22
<b>Protein Name :</b>	B-cell receptor CD22
<b>Human Gene Id :</b>	933
<b>Human Swiss Prot No :</b>	P20273
<b>Mouse Swiss Prot No :</b>	P35329
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human BL-CAM. AA range:776-825
<b>Specificity :</b>	CD22 Polyclonal Antibody detects endogenous levels of CD22 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. ELISA: 1:40000. Not yet tested in other applications.
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 90kD

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**Cell Pathway :** Cell adhesion molecules (CAMs);Hematopoietic cell lineage;B\_Cell\_Antigen;

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**Background :** 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.,

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**Subcellular Location :** Cell membrane; Single-pass type I membrane protein.

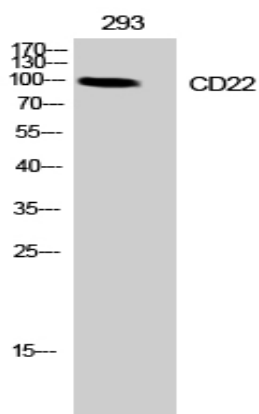
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B-lymphocytes.

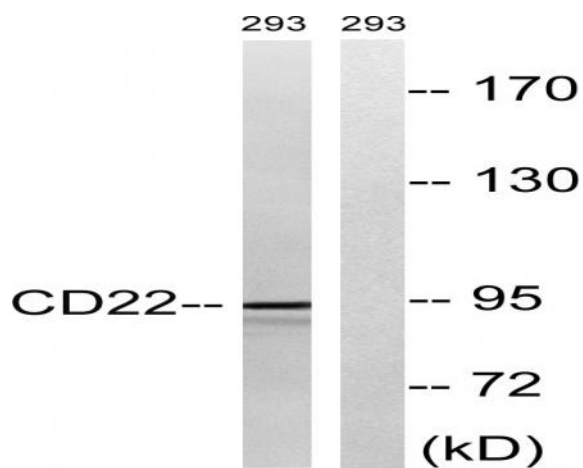
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**Expression :**

## Products Images



Western Blot analysis of 293 cells using CD22 Polyclonal Antibody



Western blot analysis of lysates from 293 cells, treated with Ca<sup>2+</sup> 40nM 30', using BL-CAM Antibody. The lane on the right is blocked with the synthesized peptide.