abcam

Product datasheet

Anti-CD22 (phospho Y842) antibody [Y507] ab32355

Recombinant   RabMAb

1 References   **2 Images**

Overview

Product name	Anti-CD22 (phospho Y842) antibody [Y507]
Description	Rabbit monoclonal [Y507] to CD22 (phospho Y842)
Host species	Rabbit
Specificity	The antibody detects CD22 phosphorylation on Tyrosine 842 and is predicted to detect splice isoforms 2 based on sequence homology.
Tested applications	**Suitable for:** WB **Unsuitable for:** Flow Cyt,IHC or IP
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Protein A purified

Clonality	Monoclonal
Clone number	Y507
Isotype	IgG

Applications

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
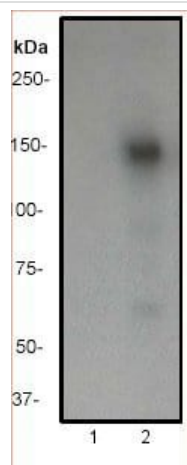
Application	Abreviews	Notes
WB		1/2000. Detects a band of approximately 150 kDa (predicted molecular weight: 95 kDa).

Application notes	Is unsuitable for Flow Cyt,IHC or IP.

Target

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.
Tissue specificity	B-lymphocytes.
Sequence similarities	Belongs to the immunoglobulin superfamily. SIGLEC (sialic acid binding Ig-like lectin) family. Contains 6 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 Ig-like V-type (immunoglobulin-like) domain.
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.
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. Phosphorylated on tyrosine residues by LYN.
Cellular localization	Cell membrane.

Images

Western blot - Anti-CD22 (phospho Y842) antibody [Y507] (ab32355)

All lanes : Anti-CD22 (phospho Y842) antibody [Y507] (ab32355) at 1/2000 dilution

Lane 1 : Raji Cell Lysate, Untreated
Lane 2 : Raji Cell Lysate, Treated with Pervanadate

Lysates/proteins at 10 µg per lane.

Predicted band size: 95 kDa
Observed band size: 150 kDa

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-CD22 (phospho Y842) antibody [Y507] (ab32355)

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