

Datasheet for ABIN3043390
anti-CD22 antibody (C-Term)[Go to Product page](#)

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Overview

Quantity:	100 µg
Target:	CD22
Binding Specificity:	AA 696-724, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD22 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for B-cell receptor CD22(CD22) detection. Tested with WB, IHC-P, FCM in Human.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human CD22 (696-724aa LAILILAICGLKLQRRWKRTQSQQGLQEN), different from the related mouse sequence by ten amino acids.
Sequence:	LAILILAICG LKLQRRWKRT QSQQGLQEN
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for B-cell receptor CD22(CD22) detection. Tested with WB, IHC-P, FCM in Human.

Product Details

Gene Name: CD22 Molecule
Protein Name: B-cell receptor CD22

Purification: Immunogen affinity purified.

Target Details

Target: CD22

Alternative Name: CD22 ([CD22 Products](#))

Background: CD22 is a surface glycoprotein of B lymphocytes that is rapidly phosphorylated on cytoplasmic tyrosines after antigen receptor cross-linking. It is a negative regulator of antigen receptor signaling whose onset of expression at the mature B cell stage may serve to raise the antigen concentration threshold required for B cell triggering. The human CD22 gene is expressed specifically in B lymphocytes and likely has an important function in cell-cell interactions. The B cell coreceptor CD22 plays an important role in regulating signal transduction via the B cell Ag receptor. And CD22 is located within the band region q13.1 of chromosome 19.

Synonyms: B cell receptor CD22 precursor antibody|B lymphocyte cell adhesion molecule antibody|B-cell receptor CD22 antibody|B-lymphocyte cell adhesion molecule antibody|BL CAM antibody|BL-CAM antibody|BLCAM antibody|CD 22 antibody|CD22 antibody|CD22 antigen antibody|CD22 Molecule antibody|CD22 protein antibody|CD22_HUMAN antibody|Lectin 2 antibody|Leu14 antibody|Lyb8 antibody|MGC130020 antibody|sialic acid binding Ig like lectin 2 antibody|Sialic acid binding immunoglobulin like lectin 2 antibody|Sialic acid-binding Ig-like lectin 2 antibody|SIGLEC 2 antibody|Siglec-2 antibody|SIGLEC2 antibody|T cell surface antigen Leu 14 antibody|T-cell surface antigen Leu-14 antibody

Gene ID: 933

UniProt: [P20273](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
Flow Cytometry: Concentration: 1-3 µg/1x10⁶ cells, Tested Species: Human
Notes: Tested Species: Species with positive results. Other applications have not been tested.

Application Details

Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in: Jia, Ma, Lv, Ma, Xu, Yang, Tian, Wang, Sun, Xu, Fu, Zhao: "Oestrogen and parathyroid hormone alleviate lumbar intervertebral disc degeneration in ovariectomized rats and enhance Wnt/β-catenin pathway activity." in: **Scientific reports**, Vol. 6, pp. 27521, (2018) ([PubMed](#)).

Jia, Jiang, Liu, Wang, Zhu, Zhu, Liu, Zhong, Xie, Huang, Jia, Li, Liu, Zuo, Cheng, Dai, Ren: "Effects of three-dimensional collagen scaffolds on the expression profiles and biological functions of glioma cells." in: **International journal of oncology**, Vol. 52, Issue 6, pp. 1787-1800, (2018) ([PubMed](#)).

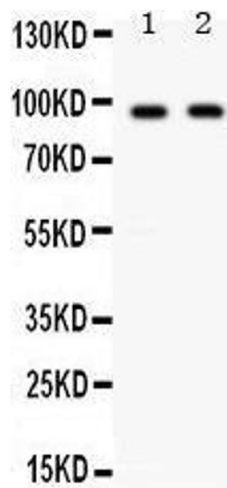
Ding, Teng, Fan, Zhao: "The Association Between Modic Changes of Lumbar Endplates and Spontaneous Absorption of Herniated Intervertebral Discs." in: **Cell biochemistry and**

biophysics, Vol. 71, Issue 3, pp. 1357-63, (2016) ([PubMed](#)).

Yan, Tian, Wang, Cheng, Xu, Song, Zhang, Zhang: "Age dependent changes in cartilage matrix, subchondral bone mass, and estradiol levels in blood serum, in naturally occurring osteoarthritis in Guinea pigs." in: **International journal of molecular sciences**, Vol. 15, Issue 8, pp. 13578-95, (2015) ([PubMed](#)).

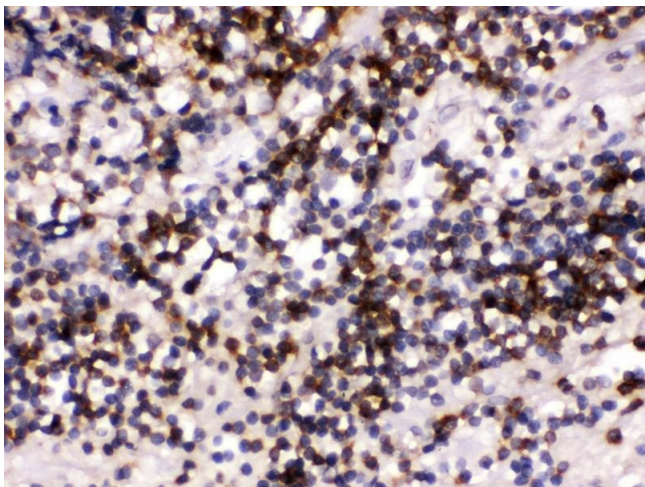
Xu, Zhang, Xu, Guo, Wang, Wu, Wang, Luo, Zhou: "Antiphotoreaging effect of conditioned medium of dedifferentiated adipocytes on skin in vivo and in vitro: a mechanistic study." in: **Stem cells and development**, Vol. 24, Issue 9, pp. 1096-111, (2015) ([PubMed](#)).

Images



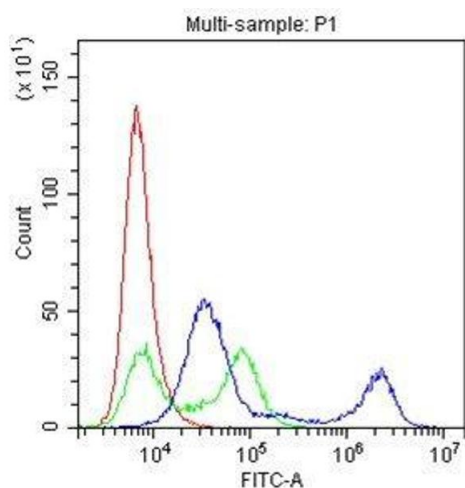
Western Blotting

Image 1.



Immunohistochemistry

Image 2. Anti- CD22 Picoband antibody, IHC(P) IHC(P):
Human Tonsil Tissue



Flow Cytometry

Image 3. Flow Cytometry analysis of Raji cells using anti-CD22 antibody. Overlay histogram showing Raji cells stained with (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD22 Antibody (1µg/1x10⁶ cells) for 30 min at 20°C. DyLight[®]488 conjugated goat anti-rabbit IgG (BA1127, 5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.