

Product datasheet

Anti-CD21 antibody [EP3093] ab75985

Recombinant RabMAb

★★★★★ 6 Abreviews 31 References 5 Images

Overview

Product name	Anti-CD21 antibody [EP3093]
Description	Rabbit monoclonal [EP3093] to CD21
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB, IP, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human CD21 aa 1000 to the C-terminus (C terminal). The exact sequence is proprietary.
Positive control	IP: Daudi cell lysate.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.20</p> <p>Preservative: 0.05% Sodium azide</p> <p>Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant</p>
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EP3093
Isotype	IgG

Applications

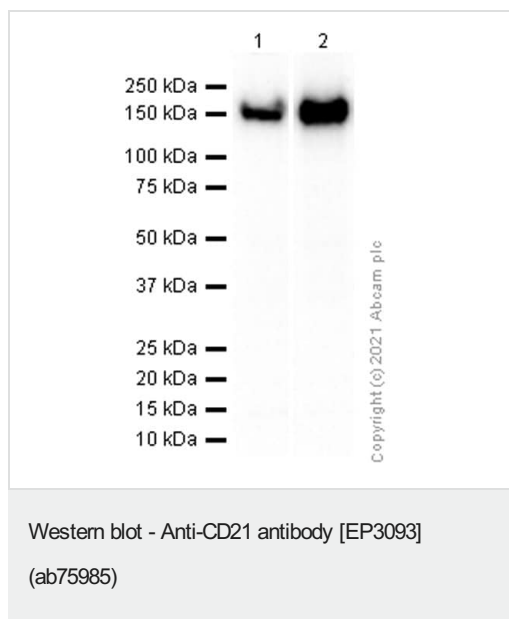
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab75985 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/50. For unpurified use at dilution 1/250 to 1/500
WB		1/2000 - 1/5000. Detects a band of approximately 150 kDa (predicted molecular weight: 113 kDa).
IP		1/100.
IHC-P	★★★★★ (1)	1/8000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. For unpurified use at dilution 1/250 to 1/500

Target

Function	Receptor for complement C3Dd, for the Epstein-Barr virus on human B-cells and T-cells and for HNRPU. Participates in B lymphocytes activation.
Tissue specificity	Mature B-lymphocytes, T-lymphocytes, pharyngeal epithelial cells, astrocytes and follicular dendritic cells of the spleen.
Involvement in disease	Genetic variations in CR2 are associated with susceptibility to systemic lupus erythematosus type 9 (SLEB9) [MIM:610927]. Systemic lupus erythematosus (SLE) is a chronic autoimmune disease with a complex genetic basis. SLE is an inflammatory, and often febrile multisystemic disorder of connective tissue characterized principally by involvement of the skin, joints, kidneys, and serosal membranes. It is thought to represent a failure of the regulatory mechanisms of the autoimmune system.
Sequence similarities	Belongs to the receptors of complement activation (RCA) family. Contains 15 Sushi (CCP/SCR) domains.
Cellular localization	Membrane.

Images



All lanes : Anti-CD21 antibody [EP3093] (ab75985) at 1/20000 dilution (Purified)

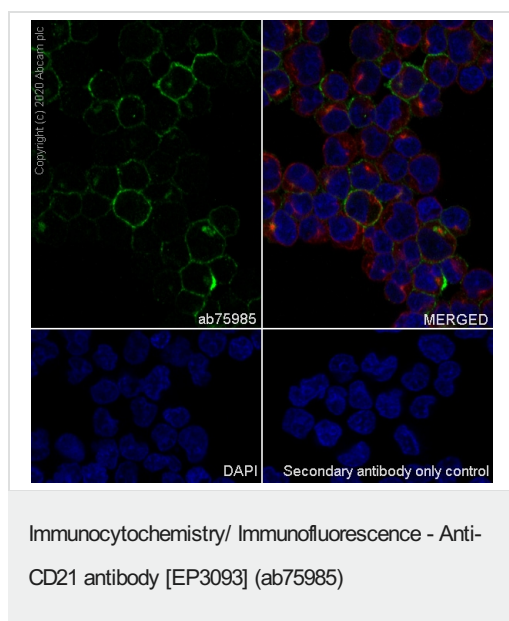
Lane 1 : Daudi (Human Burkitt's lymphoma lymphoblast) whole cell lysate

Lane 2 : Raji (Human Burkitt's lymphoma B lymphocyte) whole cell lysate

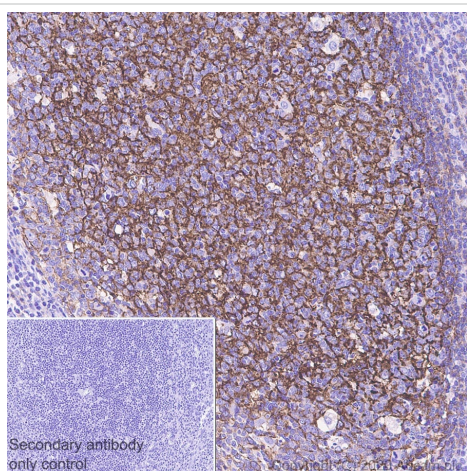
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 113 kDa

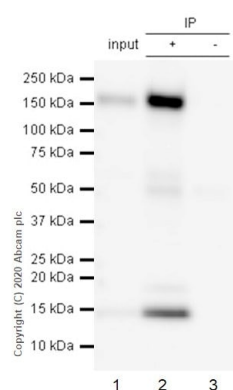


Immunocytochemistry analysis of Raji (Human Burkitt's lymphoma B lymphocyte) cells labeling CD21 with Purified ab75985 at 1:50 dilution (10 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with [ab195889](#) Anti-alpha Tubulin antibody [DM1A]+H21:L21 - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD21 antibody [EP3093] (ab75985)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue sections labeling CD21 with Purified ab75985 at 1:8000 dilution (0.066 µg/ml). Heat mediated antigen retrieval was performed using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 1 (pH 6.0). Tissue was counterstained with Hematoxylin. Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) secondary antibody was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control.



Immunoprecipitation - Anti-CD21 antibody [EP3093] (ab75985)

Purified ab75985 at 1/100 dilution (2µg) immunoprecipitating CD21 in Daudi whole cell lysate.

Lane 1 (input): Daudi (Human Burkitt's lymphoma lymphoblast) whole cell lysate 10µg

Lane 2 (+): ab75985 + Daudi whole cell lysate.

Lane 3 (-): Rabbit monoclonal IgG ([ab172730](#)) instead of ab75985 in Daudi whole cell lysate.

VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) (1/1000 dilution) was used for Western blotting.





Blocking Buffer and concentration: 5% NFDm/TBST.

Diluting buffer and concentration: 5% NFDm/TBST.

Observed band size: 155 kDa

The band at around 15kDa could be cleavage form. (PMID: 9647256)

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-CD21 antibody [EP3093] (ab75985)

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