

Store at
-20C
#98245**CD21/CR2 Antibody**

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	150	Rabbit	#P20023	1380

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

CD21/CR2 Antibody recognizes endogenous levels of total CD21/CR2 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp430 of human CD21/CR2 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Complement receptor type 2 (CD21/CR2) is a type 1 transmembrane glycoprotein whose expression is largely restricted to B lymphocytes and follicular dendritic cells (1,2). Research studies have shown that CD21/CR2 functions to bind the complement fragments iC3b, C3dg, and C3d, which function to activate the alternative complement pathway and MAC formation (3,4). In addition to its function as a complement receptor, CD21/CR2 also functions as the B lymphocyte receptor for Epstein-Barr virus (5) and interferon alpha (6). Research studies have also shown that CD21/CR2 participates in B cell activation, proliferation, and protection from apoptosis through its association with components of the B cell coreceptor signaling complex such as CD19 and CD21 (7-9).

Background References

1. Nadler, L.M. et al. (1981) *J Immunol* 126, 1941-7.
2. Reynes, M. et al. (1985) *J Immunol* 135, 2687-94.
3. Weis, J.J. et al. (1984) *Proc Natl Acad Sci U S A* 81, 881-5.
4. Nielsen, C.H. et al. (2001) *Immunology* 104, 418-22.
5. Fingerroth, J.D. et al. (1984) *Proc Natl Acad Sci U S A* 81, 4510-4.
6. Asokan, R. et al. (2006) *J Immunol* 177, 383-94.
7. Tedder, T.F. et al. (1994) *Immunol Today* 15, 437-42.
8. Fearon, D.T. and Carter, R.H. (1995) *Annu Rev Immunol* 13, 127-49.
9. Mongini, P.K. et al. (2003) *J Immunol* 171, 5244-54.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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