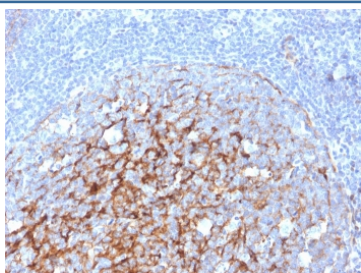


## CD21 Antibody [clone CR2/3247] (V7693)

Catalog No.	Formulation	Size
V7693-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7693-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7693SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

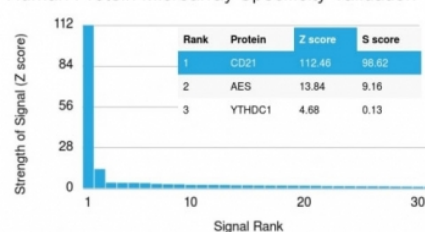
**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG2b, kappa
<b>Clone Name</b>	CR2/3247
<b>Purity</b>	Protein G affinity chromatography
<b>UniProt</b>	P20023
<b>Localization</b>	Cell surface
<b>Applications</b>	ELISA (order BSA-free Format For Coating) : Immunohistochemistry (FFPE) : 1-2ug/ml
<b>Limitations</b>	This CD21 antibody is available for research use only.

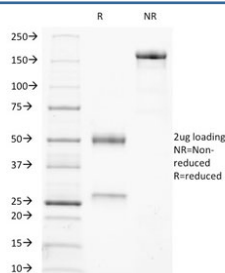


IHC staining of FFPE human tonsil with CD21 antibody (clone CR2/3247). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.

#### Human Protein Microarray Specificity Validation



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using CD21 antibody (clone CR2/3247). These results demonstrate the foremost specificity of the CR2/3247 mAb. **Z-** and **S-** score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free CD21 antibody (clone CR2/3247) as confirmation of integrity and purity.

## Description

Recognizes a protein of 140kDa, which is identified as the complement receptor 2 (CR2) or CD21. This protein is expressed strongly on mature B cells, follicular dendritic cells and weakly on immature thymocytes and T lymphocytes. In B-cell ontogeny, CD21 appears after the pre-B-stage, is maintained during peripheral B-cell development and is lost upon terminal differentiation into plasma cells. CD21 expression is also gradually lost after stimulation of B cells in vitro. CD21 functions as receptor for C3d, C3dg and iC3b Complement components, for EBV and for IFN $\alpha$ . CD21 binds to CD23 and associates with CD19, CD81 and Leu13 to form a large signal-transduction complex involved in B cell activation.

## Application Notes

Optimal dilution of the CD21 antibody should be determined by the researcher.

## Immunogen

A partial protein corresponding to amino acids 142-240 was used as the immunogen for the recombinant CD21 antibody.

## Storage

Store the CD21 antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).