

CR2

CONTACT INFORMATION:	University of Oxford marketed by Ximbio.com
TYPE:	mouse anti human
CLONE NAME:	21A5
PROTEIN:	Complement component (3d/Epstein Barr virus) receptor 2 (CR2, CD21)
PROTEIN WEB:	https://www.omim.org/entry/120650
ANTIGEN USED:	CD21
FUSION PARTNER:	P3/NS1/1-Ag4.1
ISOTYPE:	IgG1
SPECIES REACTIVITY:	Human
PREPARATION AND STORAGE:	Aliquot and store at 4C. Do not freeze
COMMERCIALIZED BY:	Ximbio.com
APP RECOMMENDED:	FACS IHC

DESCRIPTION

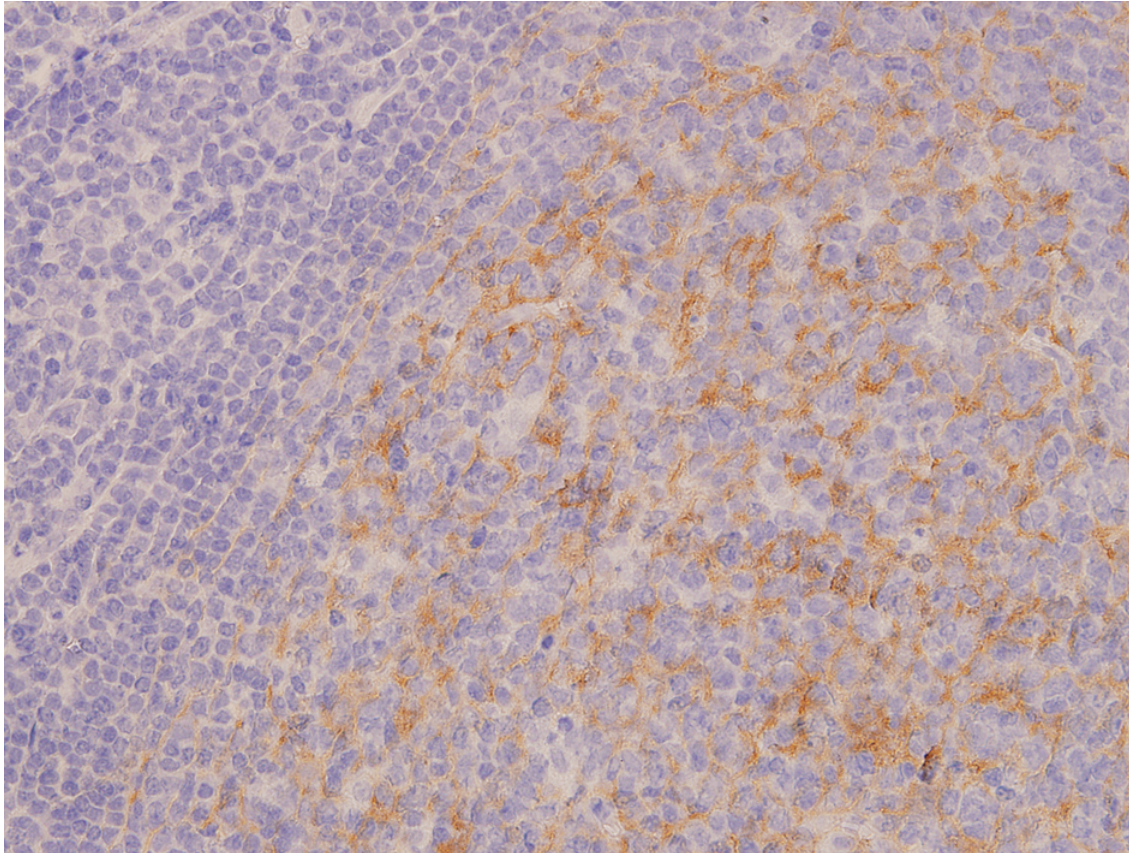
CR2 is expressed strongly on mature B cells, follicular dendritic cells and weakly on immature thymocytes and T lymphocytes. In B-cell ontogeny, CR2 appears after the pre-B-stage, is maintained during peripheral B-cell development and is lost upon terminal differentiation into plasma cells. CR2 expression is also gradually lost after stimulation of B cells in vitro. CR2 functions as a receptor for C3d, C3dg and iC3b Complement components and for EBV and for IFN alpha. CR2 binds to CD23 and associates with CD19, CD81 and Leu13 to form a large signal-transduction complex involved in B-cell activation. By inducing release of proinflammatory cytokines and upregulating expression of molecules involved in antigen presentation, CR2 modulates critical monocyte functions that may be relevant to allergic and inflammatory disorders.

REFERENCES

CD Guide for CD21 (1989) In Knapp W, et al (eds) Leucocyte Typing IV, Oxford University Press, Oxford, New York and Tokyo, p 1080. ISBN-13: 978-0192618672

APPLICATIONS

IHC Techniques	Clone	Dilution	Antibody concentration	Antigen retrieval method	Visualization kit	Positive control	Negative control	Protein localization	Positivity in other species
Frozen tissue and cytopspins									
Paraffin tissue									
Recommended	21A/5	Neat	supernatant		Envision				
Immunofluorescence									



21A/5 Tonsil

Tonsil stained with neat supernatant from 21A/5 hybridoma, detection using Dako Envision kit, 20x power image