

## Product datasheet for **TA353108**

### CD21 (CR2) Mouse Monoclonal Antibody [Clone ID: 21A/5]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	21A/5
Recommended Dilution:	FACS ; IHC
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	CD21
Formulation:	PBS with 0.02% Sodium Azide
Concentration:	lot specific
Purification:	Purified by affinity chromatography.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	complement component 3d receptor 2
Database Link:	<a href="#">NP_001868</a> <a href="#">Entrez Gene 1380 Human</a> <a href="#">P20023</a>

**Background:** 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.



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**Synonyms:** C3DR; CD21; CR; CVID7; SLEB9

**Note:** Please note this cell line has not been weaned out of HAT. Ultrosor G can be used at 1% if the cells are not growing well.

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** B cell receptor signaling pathway, Complement and coagulation cascades, Hematopoietic cell lineage