

# CD35 / CR1 (Follicular Dendritic Cell Marker) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone SPM554 ]  
Catalog # AH10415

## Product Information

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<b>Application</b>	IF, FC, IHC-P
<b>Primary Accession</b>	<a href="#">P17927</a>
<b>Other Accession</b>	<a href="#">1378</a> , <a href="#">334019</a>
<b>Reactivity</b>	Human, Rhesus, Baboon, Cynomolgus
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	Mouse / IgG1, kappa
<b>Clone Names</b>	SPM554
<b>Calculated MW</b>	223663

## Additional Information

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<b>Gene ID</b>	1378
<b>Other Names</b>	Complement receptor type 1, C3b/C4b receptor, CD35, CR1, C3BR
<b>Application Note</b>	IF~~1:50~200 FC~~1:10~50 IHC-P~~N/A
<b>Format</b>	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
<b>Storage</b>	Store at 2 to 8°C. Antibody is stable for 24 months.
<b>Precautions</b>	CD35 / CR1 (Follicular Dendritic Cell Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	CR1
<b>Synonyms</b>	C3BR
<b>Function</b>	Membrane immune adherence receptor that plays a critical role in the capture and clearance of complement-opsonized pathogens by erythrocytes and monocytes/macrophages (PubMed: <a href="#">2963069</a> ). Mediates the binding by these cells of particles and immune complexes that have activated complement to eliminate them from the circulation (PubMed: <a href="#">2963069</a> ). Also acts in the inhibition of spontaneous complement activation by impairing the

formation and function of the alternative and classical pathway C3/C5 convertases, and by serving as a cofactor for the cleavage by factor I of C3b to iC3b, C3c and C3d,g, and of C4b to C4c and C4d (PubMed:[2972794](#), PubMed:[8175757](#)). Also plays a role in immune regulation by contributing, upon ligand binding, to the generation of regulatory T cells from activated helper T cells (PubMed:[25742728](#)).

**Cellular Location**

Membrane; Single-pass type I membrane protein

**Tissue Location**

Present on erythrocytes, a subset of T cells, mature B cells, follicular dendritic cells, monocytes and granulocytes

## Background

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Recognizes a protein of 210-220kDa, which is identified as the complement receptor 1 (CR1)/CD35. This MAb is specific for a site in CR1 that is distal from the C3b-binding site, so that it is unable to block CR1 activity. This MAb is highly specific to CR1 and shows no cross-reaction with CR2. The primary function of CR1 is to serve as the cellular receptor for C3b and C4b, the most important components of the complement system leading to clearance of foreign macromolecules. The Knops blood group system is a system of antigens located on this protein. Follicular dendritic cells (FDC) are restricted to the B-cell regions of secondary lymphoid follicles. They are CD21+/CD35+/CD1a-. This MAb labels follicular dendritic cells and follicular dendritic cell sarcoma.

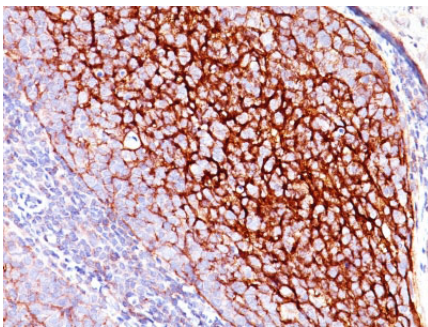
## References

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Hogg N, et. al. European Journal of Immunology, 1984, 14:236-43

## Images

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Formalin-fixed, paraffin-embedded human Tonsil stained with CD35 Monoclonal Antibody (SPM554).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.