



CD21 Ab-2 (Clone 2G9)

Mouse Monoclonal Antibody

Catalog #DLN-06289, DLN-06290, or DLN-06288 (0.1ml, 0.5ml, or 1ml Supernatant)

Catalog #DLN-06287 (7.0ml)

Description: CD21, also known as CR2, C3d receptor and EBV receptor¹⁻³, is expressed strongly on mature B cells, follicular dendritic cells and weakly on immature thymocytes and T lymphocytes.¹⁻² 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.¹ CD21 expression is also gradually lost after stimulation of B cells in vitro.¹ CD21 functions as receptor for C3d, C3dg and iC3b Complement components, for EBV and for IFN γ .³⁻⁵ CD21 binds to CD23 and associates with CD19, CD81 and Leu13 to form a large signaltransduction complex involved in B cell activation.^{6- 8}

Mol. Wt. of Antigen: 140kDa

Epitope: Extracellular domain

Species Reactivity: Human. Others not-tested.

Clone Designation: 2G9

Ig Isotype: IgG_{2a}

Immunogen: Recombinant protein encoding the external domain of human CD21.

Applications and Suggested Dilutions:

- Immunohistology (Formalin/paraffin) (Use Ab at 1:10 to 1:20 for 60 min at RT)
- * [Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min.]

The optimal dilution for a specific application should be determined by the investigator.

Positive Control: Tonsil

Cellular Localization: Cell membrane

Supplied As:

Tissue culture supernatant with 0.09% sodium azide, or Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

Storage and Stability: Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months.



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Suggested References:

1. Schlossman SF et al. eds Leukocyte Typing V, p516- 522, Oxford University Press, Oxford, 1995.
2. Aubry JP et al. In Schlossman SF et al eds. Leukocyte Typing V, p535-536, Oxford University Press, Oxford, 1995
3. Carel JC et al. J Biol Chem 1990, 265(21):12293-12299
4. Cooper NR et al. Annu Rev Immunol 1988, 6:85-113

Limitations and Warranty:

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. Dianova is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

Material Safety Data:

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

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dianova GmbH

Warburgstr. 45 • 20354 Hamburg

Telefon (040) 45067-0 • Telefax (040) 45067-490 • www.dianova.de