



CD38 Ab-3 (Clone 38C03; same as SPC32)

Mouse Monoclonal Antibody

Cat. #DLN-11596, DLN-11597, or DLN-11595 (0.1ml, 0.5ml, or 1.0ml Supernatant)

Cat. #DLN-11594 (7.0ml) (Ready-to-Use for Immunohistochemical Staining)

Description: CD38 is a single chain type II integral transmembrane protein, which is highly expressed on thymocytes. It is also present on activated T cells and terminally differentiated B cells (plasma cells). Other reactive cells include NK cells, monocytes, macrophages, and dendritic cells. CD38 may be detected on cells from multiple myeloma, ALL (B and T) and some AML. It is, however, not found on most mature resting peripheral lymphocytes. CD38 functions as a multicatalytic ectoenzyme serving as ADP-ribosyl cyclase, cyclic ADP-ribose hydrolase and possibly NAD⁺ glycohydrolase or as a cell surface receptor.

Comments: Antibodies to CD38 are useful in subtyping of lymphomas and leukemias, detection of plasma cells (i.e. identification of myelomas), and as a marker for activated B and T cells.

Mol. Wt. of Antigen: 45kDa

Epitope: Extracellular

Species Reactivity: Human. Others-not tested.

Clone Designation: 38C03 (same as SPC32)

Ig Isotype / Light Chain: IgG₁

Immunogen: Recombinant protein encoding the extracellular domain of human CD38.

Applications and Suggested Dilutions:

- Western Blotting (Not suitable)
- Immunohistology (Formalin/paraffin)
(Use Ab 1:50 to 1:100 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.]
- * [Requires use of a high-sensitivity detection system.]

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.



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

Suggested References:

1. Yamada M; et al. Brain Research, 1997, 756(1-2):52-60.
2. Berthelie V; et al Research in Immunology, 1996, 147(6):407-11.

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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