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DATA SHEET

Rabbit Anti-CD38 Recombinant [MD71R]: RM0459, RM0459RTU7

Intended Use: For Research Use Only

Description: CD38, also called ADP-ribosyl cyclase, is an ectoenzyme that uses nicotinamide adenine dinucleotide (NAD) as a substrate to generate second messengers. In particular, it synthesizes cyclic ADP-ribose, a second messenger for glucose-induced insulin secretion. CD38 also has cADPR hydrolase activity. It is preferentially expressed at both early and late stages of B- and T-cell maturation. CD38 is expressed in a variety of non-hematopoietic and hematopoietic cells, the latter comprising early bone marrow progenitor cells, thymic cells, natural killer cells, activated T cells, and B cells at early and late stages of differentiation, such as plasma cells. In normal lymph nodes and tonsils, the antigen is detected mainly on B cells in germinal centers and plasma cells. An antibody to CD38 is helpful in the identification of plasma cells and tumors with plasmablastic differentiation. A prognostic value of CD38 in B-cell chronic lymphocytic leukemia (CLL) has been reported. Expression of CD38 is linked to unmutated IgVH genes and a worse prognosis.

Specifications:

Clone:	MD71R
Source:	Rabbit
Isotype:	IgG
Reactivity:	Human
Immunogen:	Synthetic peptide to CD38 aa 200-300
Localization:	Membrane
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC

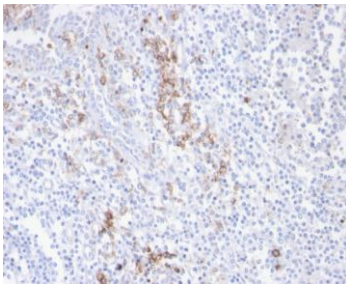
Package:

Description	Catalog No.	Size
CD38 Recombinant Concentrated	RM0459	1 ml
CD38 Recombinant Prediluted	RM0459RTU7	7 ml

IHC Procedure*:

Positive Control Tissue:	Tonsil, spleen. Raji cells
Concentrated Dilution:	50-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human tonsil stained with anti-CD38 Recombinant using DAB

References:

1. Multi-cellular 3D human primary liver cell culture elevates metabolic activity under fluidic flow. Esch MB, et al. Lab Chip 15:2269-77, 2015.
2. Clinicopathological study of primary biliary cirrhosis with interface hepatitis compared to autoimmune hepatitis. World Kobayashi M, et al. J Gastroenterol 20:3597-608, 2014.

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