Thermo SCIENTIFIC

RESEARCH USE ONLY DATA SHEET

Rev 012003A

Clinical customers please refer to IVD / ASR Data Sheet

CD138 Ab-2 (Clone MI15)

Mouse Monoclonal Antibody

Cat. #MS-1793-S0, -S1, or -S (0.1ml, 0.5ml, or 1.0ml Supernatant)
Cat. #MS-1793-R7 (7.0ml) (Ready-to-Use for Immunohistochemical Staining)
Cat. #MS-1793-PCS (5 Slides) (Positive Control for Histology)

Description: CD138 / Syndecan-1 is a transmembrane heparin sulphate proteoglycan which is made up of one core protein and five glycosaminoglycan. CD138 is expected to play a role in cell adhesion. It is expressed on the surface of pre-B cells and plasma cells but is absent from mature B cells. It is a selective marker for B cell lymphoblastic leukemia and lymphoplasmocytoid leukemia. It is lost from the apoptotic myeloma cells; hence is a useful marker for viable myeloma cells.

Mol. Wt. of Antigen: 30.5 (core protein); 85-92kDa (depending upon glycosaminoglycans)

Epitope: Ectodomain[2]

Ig Isotype / Light Chain: IgG_1 / k

Species Reactivity: Human. Others not known.

Clone Designation: MI15

Immunogen: U-266 cells[3]

Applications and Suggested Dilutions:

- Immunoprecipitation[3]
- Western Blotting[2]
- Immunohistology (Formalin/paraffin)
  (Use Ab at 1:10-1:20 for 30 min at RT)

* [Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 10mM citrate buffer, pH 6.0, (***NEOMARKERS'*** Cat. #AP-9003), 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: U-266 cells[3]. 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.

Key References:

1. Wijdenes J, et al. (1997) : In Kishimoto et al. editors. Leukocyte Typing VI. White cell differentiation antigens. New York: Garland Publishing, p:249-52.

2. Gattei V, et al. (1999) Br J Haematol, 104:412-9.

3. Horvathova M, et al. (1995): In Schlossman S F, et al. editors. Leukocyte Typing V. White cell differentiation antigens. New York: Oxford University Press Inc, 713-714.

Limitations and Warranty:

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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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