Thermo SCIENTIFIC

DATA SHEET
Rev 120302J

Collagen II Ab-2 (Clone 2B1.5)

Mouse Monoclonal Antibody

Cat. #MS-235-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)
Cat. #MS-235-P1ABX or -PABX (0.1ml or 0.2ml at 1.0mg/ml) (Purified Ab without BSA and Azide)
Cat. #MS-235-B0, -B1, or -B (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Biotin-Labeled Ab with BSA and Azide)
Cat. #MS-235-R7 (7.0ml) (Ready-to-Use for Immunohistochemical Staining)
Cat. #MS-235-PCS (5 Slides) (Positive Control for Histology)

Comments: This MAb is highly specific to type II collagen and shows no cross-reaction with types I, III, IV, V, VI, IX, X, or XI. In Western blotting, 2B1.5 MAb reacts with the TC^B fragment of pepsin-digested type II collagen after digestion with mammalian collagenase. It also reacts with lathyritic type II collagen.

Epitope: Carboxyl-terminal one quarter of the type II collagen. The epitope for 2B1.5 MAb is not susceptible to digestion of lathyritic type II collagen with recombinant stromelysin.

Species Reactivity: Human, Mouse, Rat, Cow, and Chicken. Others-not known

Clone Designation: 2B1.5

Ig Isotype / LightChain: IgG_{2a} / κ

Immunogen: A purified preparation of lathyritic type II collagen from embryonic chicken sternum

Applications and Suggested Dilutions:

- Flow Cytometry
- Immunofluorescence
- Western Blotting[1] (Ab 1-2µg/ml for 2hrs at RT)
- Immunohistology (Formalin/paraffin[1])
  (Ab 1-2µg/ml for 30 min at RT)

* (Staining of formalin/paraffin tissues REQUIRES digestion of tissue sections with pepsin at 1mg/ml Tris-HCl, pH 2.0 for 15 min at RT or 10 min at 37C) (Cat. #AP-9007)

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

Positive Control: Cartilage in lung or fetus

Cellular Localization: Cartilage matrix

Storage and Stability: Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

Supplied As:
200µg/ml antibody purified by Protein A chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide. Also available without BSA and azide at 1mg/ml,

or

Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

Key References:

1. Mayne R; et al. Conn Tissue Res, 1994, 31(1):11-21.
2. Chen Q; et al. Dev Dynamics, 1993 196(1):47-53.
3. Hicks DG, *et. al.* J Histotechno-logy, 20:215, 1997.
4. PNAS 91:5070-4, 1994.
5. Exp Cell Res 219:257-65, 1995.
6. Cell 80;423-30, 1995.
7. Develop Dynamics 200:294-304, 1994.
8. J Cell Biol 130:1461-72, 1995.
9. Develop Biol 170:387-96, 1995.

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. NeoMarkers 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

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EC REP

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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.

For Research Use Only

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