ImmunoBioScience Corp. (IBSC) *DATA SHEET*

CD15, Lewis X (Clone: BRA-4F1) Mouse Monoclonal Antibody (MMab) anti-human

**Catalog number:** MM-1028-01 0.5 ml Concentrated ~ IgM 0.2 mg/ml

MM-1028-02 1.0 ml Concentrated ~IgM 0.2 mg/ml

MM-1028-04 7.0 ml Prediluted for IHC ~ IgM 5µg/ml

**Buffer:** Ammonium sulfate purified antibodies are supplied with 1% BSA in PBS with 0.05% azide, pH 7.4. The Prediluted antibody is supplied in our Universal antibody dilution buffer (AR-6526) green in color.

**Description**: This antibody CD15 antigen (3-Fucosyl-N-Lactosamine, Lewis X, Hapten X) is expressed on (granulocytes) including neutrophils, eosinophils and less extent on monocytes. It is also present in embryonic tissues and adenocarcinomas, myeloid leukemias and Reed-Sternberg cells in subtypes of Hodgkin’s disease.. Clone BRA-4F1 does not cross react with sialylated form of CD15. This antigen is present on a variety of glycoproteins (105, 135, 165, 185 and 220 kDa) and glycolipids at the cell surface membranes of polymorphonuclear cells. This antibody has been studied at the IV and V International Workshop on Human Leukocyte Differentiation Antigens.

**Intended Use**: Immunohistochemistry (IHC) and Immunocytchemistry (ICC),

Immunofluorescence (IF) and Flow cytometry (not tested in our lab)

**Storage**: 2-8°C

**Clone**: (Workshop IV) (BRA-4F1) our designation 238) **Isotype:** Ig M

**Epitope:** not known

**Chromosomal location:** not known

**Molecular weight of antigen:** 105, 135, 165, 185 and 220 kDa

**Immunogen:** Erythroid myeloid leukemia cells line K562.

**Species reactivity:** Human and others not tested.

**Cellular Localization:** Cell membranes, granulocytes and monocytes

**Recommended positive control:** Reed Sternberg cells in Hodgkin’s lymphoma.

**Application:** IHC, ICC (frozen (methanol fixed) or formalin–fixed paraffin-embedded (FFPE) tissue sections, cell smears. For IHC dilute conc. antibodies 1:50-1:100, use streptavidin~biotin system or polymer system, incubate 30 minutes at room temperature (RT*). For FFPE tissue sections high temperature antigen retriever like citrate (our catalog # AR-6544) is required. (Citrate antigen retriever: Boil tissue in 10 mM citrate, pH 6.0 for 10-15 minutes followed by cooling for 10-15 minutes at RT.*

**Western Blot:** 1-2µg/ ml (1:100-1:200) 2 hours at RT.

Prediluted antibody is ready to be used for IHC.

*The optimum dilution should be determined by the individual lab.*

**General References:**

1. Ball, ED Leucocytes typing V, 790-794, 1995

2. Barclay, AN etal Leucocytes antigen, facts book, Academic press, London, 1997

3. Stocks, SC Biochem J 268: 275-280, 1990

4. Hakomori, S LeX and related structure as adhesion molecules. Histochem. J 24: 771-776, 1992.

**Limitation and warranty:** Our warranty is limited to the actual price paid for the product. We are not liable for any property damage, personnel injury, time, effort or economic loss due to our product.

**MSDS:** This product contains 0.05 % sodium azide as a preservative, appropriate care should be taken in handling. National Institute of Occupational Safety and Health has warning that sodium azide can react with lead, copper, brass or solder in the plumbing system and forms hydrazoic acid in acidic condition. Discard with copious amount of water. Avoid skin and eye contact with all laboratory products. Use appropriate laboratory gear, coat, gloves and safety glasses. Do not ingest any laboratory products. This product is not approved for administration in human or animals.

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