ImmunoBioScience Corp. (IBSC) *DATA SHEET*

CD74 (Clone LN2) Mouse Monoclonal Antibody (MMab) anti-human

**Catalog number:** MM-1027-01 0.5 ml Concentrated IgG1 0.2 mg/ml

MM-1027-02 1.0 ml Concentrated IgG1 0.2 mg/ml

MM-1027-04 7.0 ml Prediluted for IHC IgG1 5µg/ml

MM-1027-15 0.5 ml FITC~conjugated IgG1 0.2 mg/ml

MM-1027-16 1.0 ml FITC~conjugated IgG1 0.2 mg/ml

**Buffer:** Protein A 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**: The human histocompatibility leukocyte antigen (HLA) class II is also known as MHC class II. **CD74**, (the MHC class II associated invariant chain (Ii), is a type II transmembrane protein and binds to the peptide binding groove of newly synthesized MHC class. **CD74** expression by B-lymphocytes begins in the pre-B cell stage and disappears before differentiation to plasma cells. **CD74** is expressed in normal B lymphocyte phenotype and many B-cells lymphoma.

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

Immunofluorescence (IF), Flow cytometry.

**Storage**: 2-8°C

**Clone**: LN2 (Workshop IV) (our designation 238) **Isotype:** IgG1/κ

**Epitope:** not known

**Chromosomal location:** Genetic locus: CD74 (human) mapping to 5q32; Cd74 (mouse) mapping to 18E1

**Molecular weight of antigen:** 35kDa

**Immunogen:** SU-DHL-4 lymphoma cells.

**Species reactivity:** Human and baboon. Rat is negative; others not tested.

**Cellular Localization:** Cell membrane

**Recommended positive control:** Human Raji cells, lymph node, tonsil

**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.

IF, FITC~conjugated antibodies 5-20 µg/ml (1:10-1:40), incubate for 2 hours in the dark at RT or it can also be incubated overnight at 4ºC.

Flow: FITC~conjugated antibodies, 0.2-1.0 µg/0.1 ml (1:200-1:1,000) (Not tested in our lab).

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. Ioachim, HL et al. International J of Cancer. Supplement, 8: 132-3 (1994).
2. Sarker, AB et al. Am. J Pathol. 141: 19-23 (1992).
3. Wilson, KM et al. Immunol. 79: 331-335 (1993)
4. Henne, C et al. Immunol. 84: 177-182 (1995)
5. Kumar, S et al. Am. J of hematology 46: 134-137 (1994)
6. Perkins, SL; Kjeldsberg, CR Am. J Clin. Pathol. 99: 362-373 (1993)

**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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