ImmunoBioScience Corp. (IBSC) *DATA SHEET*

CD71 (Transferrin Receptor) clone DF 1513, Mouse Monoclonal Antibody (MMab) anti-human

**Catalog number:** MM-1029-01 0.5 ml Concentrated IgG1 0.2 mg/ml

MM-1029-02 1.0 ml Concentrated IgG1 0.2 mg/ml

MM-1029-15 0.5 ml FITC~conjugated IgG1 0.2 mg/ml

MM-1029-16 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. Prediluted antibody is supplied in our Universal antibody dilution buffer (AR-6526) green in color.

**Description**: CD 71 a transferrin receptor is a disulfide homodimeric glycoprotein type II (180 kDa) present on activated T and B cells, a subset of reticulocytes and many activated proliferating cells. CD71 is expressed weakly on all resting leucocytes. CD 71 is also found on macrophages, osteoblasts, germ cells brain capillary endothelium. CD 71 is also associated with normal and neoplastic tissues and useful in predicting clinical behavior or response to therapy in a number of malignancies including breast cancer.

**Intended Use**: Immunohistochemistry (IHC frozen sections), Western blot, Immunofluorescence (IF frozen sections) and Flow cytometry (not tested at our lab)

**Storage**: 2-8°C

**Clone**: DF 1513 (Workshop IV) **Isotype:** IgG1/κ

**Epitope:** not known

**Molecular weight of antigen:** 90-95 kDa

**Immunogen:** KG1 acute myeloid leukemia cell line

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

**Cellular Localization:** Granular cytoplasmic and cell membrane

**Recommended positive control:** Human tonsil, placenta

**Application:** IHC, ICC (frozen (methanol fixed), 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).

IF (frozen sections), 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. (ICC not tested in our lab).

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 (not tested in our lab).

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

**General References**

1. Knapp et al Editor, Leukocyte typing IV oxford Univ. Press 1989
2. Oudemans et al Cancer 58, 1252, 1986
3. Ayala P *et al.* The pilus and porin of Neisseria gonorrhoeae cooperatively induce Ca(2+) transients in infected epithelial cells. *Cell Microbiol* **7**:1736-48 (2005).
4. Ortiz-Zapater E *et al.* Trafficking of the human transferrin receptor in plant cells: effects of tyrphostin A23 and brefeldin A. *Plant J* **48**:757-70 (2006).

**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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