ImmunoBioScience Corp. (IBSC) *DATA SHEET*

CYTOKERATIN 4, 5, 6, 8, 10, 13 and 18 Mouse MAb anti-human-

**Catalog number:** MM-1023-01 0.5 ml Concentrated IgG1 0.2 mg/ml

MM-1023-02 1.0 ml Concentrated. IgG1 0.2 mg/ml

MM-1023-04 7.0 ml Prediluted for IHC IgG1 6µg/ml

MM-1023-15 0.5 ml FITC~conjugated IgG1 0.2 mg/ml

MM-1023-16 1.0 ml FITC~conjugated IgG1 0.2 mg/ml

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

**Description**: Cytokeratins are intermediate filament keratins found in the intracytoplasmic cytoskeleton of epithelial tissue There are two types of Cytokeratins: the low weight, acidic type I cytokeratins and the high weight, basic or neutral type II. Cytokeratins are usually found in pairs comprising a type I Cytokeratin and a type II cytokeratin. The high molecular weight cytokeratins, which are the basic or neutral cytokeratins, comprise subtypes CK1 (67), CK2 (65.5), CK3 (64), CK4 (59), CK5 (58), CK6 (56), CK7 (54), CK8 (52.5) and CK9. The low molecular weight cytokeratins, which are the acidic cytokeratins, comprise subtypes **CK10** (56.5), CK12 (56), CK13 (53), CK14 (50), CK16 (48), CK17 (46), CK18 (45), CK19 (48) and CK20 (46). This antibody recognizes low molecular weight **cytokeratins (CK4 (59), CK5 (58) CK6 (56), CK8 (52.5), CK 10 (56.5), CK13 (53), and CK18 (45).** This antibody has been reported to differentiate epithelial tumors from non-epithelial tumors.

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

**Storage**: 2-8°C

**Clone**: CK 223 **(C11)** **Isotype:** IgG1/κ

**Epitope:** Not determined

**Immunogen:** Keratin preparation from human cultured cell line A431

**Molecular weight of antigen:** CK4 (59 kDa), CK5 (58 kDa) CK6 (56 kDa), CK8 (52.5 kDa), CK 10 (56.5 kDa), CK13 (53 kDa), and CK18 (45 kDa).

**Species reactivity:** Human, rat, mouse and bovine; other not tested.

**Cellular Localization:** Cytoplasmic

**Recommended positive control:** Human skin, colon cancer.

**Application:** IHC, ICC (frozen 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.

Prediluted antibody is ready to be used for IHC.

IF, FITC~conjugated antibodies 10-20 µg/ml (1:10-1:20), 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).

**For FFPE tissue sections antigen retriever like trypsin (our catalog # AR-6541) or 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.**

**Please follow the directions as outlined in the data sheet for trypsin.**

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

**General References**

1. Moll, R et al Cell, 31: 11-24, (1982)
2. Sun, TT et. al. Am. N Y Acad. Sci. 455: 307-329 (1985)
3. Tseng, SC et.al. Cell 30: 361-372 (1982)
4. Bartek, T et. al. J Pathol. 164: 215-224 (1991)
5. Bartkova, M et al. Neoplasma 38: 439-446 (1991)
6. Kasper M Histochemistry 95: 613-620 (1991)

**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, laboratory 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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