ImmunoBioScience Corp. (IBSC) *DATA SHEET*

p53 Mouse MAb anti-human

**Catalog number:** MM-1015-01 0.5 ml Concentrated IgG2a 0.2 mg/ml

MM-1015-02 1.0 ml Concentrated IgG2a 0.2 mg/ml

MM-1015-04 7.0 ml Prediluted for IHC IgG2a 5µg/ml

MM-1015-15 0.5 ml FITC~conjugated IgG2a 0.2 mg/ml

MM-1015-16 1.0 ml FITC~conjugated IgG2a 0.2 mg/ml

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

**Description**: **p53**, also known as **protein 53** (TP53), is a transcription factor that regulates the cell cycle and hence functions as a tumor suppressor in a variety of tissue types and is involved in regulating cell growth, replication and apoptosis. It binds mdm2, SV40 T antigen and human papilloma virus E6 protein, p53 senses DNA damage and facilitate response. The human gene that encodes for p53 is *TP53*. The gene is named *TP53* after the protein it codes for (TP53 is another name for p53). The gene is located on the human chromosome 17 (17p13.1. Mutation involving p53 is found in a variety of malignant tumors, including breast, ovarian, bladder, colon, lung and melanoma.

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

Immunofluorescence (IF), Flow cytometry (not tested at our lab).

**Storage**: 2-8°C

**Clone**: p53 215 (BP53-12) **Isotype:** IgG2a/κ

**Epitope:** not known

**Molecular weight of antigen:** 53 kDa

**Immunogen:** .Recombinant human wild type p53 protein

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

**Cellular Localization:** Nuclear

**Recommended positive control:** Human 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.

FFPE tissue section requires antigen retriever (boiling tissue in 10 mM citrate, pH 6.0 for 20 mins, followed by cooling at RT for 20 mins).

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).

The optimum dilution should be determined by the individual lab.

**General References**

1. .Vojtesek, B et.al. J Immunol. Methods. 151: 237-244, 1992
2. Bartek, J. et.al. J. Pathol. 169¨27-34, 1993
3. Chen, JH, et. al. DNA Repair, 4: 1140-1148, 2005
4. Chen, JH et. al. J. Biol. Chem. 279:

**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 lab. gear, lab coat , gloves and safety glasses. Do not ingest any lab. products. This product is not approved for administration in human or animals.

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