



MP Biomedicals, LLC

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## Certificate of Analysis

ImmunO™

**Anti-beta-1-Integrin, (Clone DF5), Monoclonal**  
Catalog #: 69322  
Lot #: 84350

**Form:** This product is in PBS solution containing 1.0% BSA and 0.1% sodium azide as preservative.

**Concentration:** 10 µg/100 µl

**Antibody Class:** IgG<sub>1</sub> class mouse immunoglobulins produced by fusion between myeloma cells and Balb/c spleen cells.

**Immunogen:** Wheat germ agglutinin binding glycoproteins of human fibroblasts.

**Specificity:** The antibody reacts with the beta-1 subunit of the integrin protein family and seems to be human specific. The antibody reacts with an extracellular epitope of the b1 integrin molecule.

**Applications:** Immunohistochemical stainings, immunoblotting and other immuno assays for cellular and tumor biology. Does not work on paraffin embedded sections.

**Working Dilution:** At least 1:1,000 in immunoblotting  
1:200 to 1:400 in immunohistochemistry (with indirect methods)

**References:** 1. Ylänne, et al., *Int. J. Cancer* **43**, 1126-1136, 1989.

2. Korhonen, M. et al., *Lab Invest.* **62**, 616-625, 1990.

3. Ylänne, et al., *Blood* **76**, 570-577, 1990.

4. Virtanen et al., *Am. J. Pathol.* **147**, 1123-1132, 1995.

5. Koukoulis et al., *Human Pathol.* **28**, 84-90, 1997.

6. Virtanen et al., *Am. J. Pathol.* **150**, 1421-1431, 1995.

**Storage:** Store at 2-8°C

**Approved by:** Robert Beattie  
Quality Control Director

**Control #**