



MOUSE ANTI-HUMAN INTEGRIN α V β 3 (VITRONECTIN RECEPTOR) MONOCLONAL ANTIBODY

CATALOG NUMBER: MAB1976

LOT NUMBER:

QUANTITY: 100 μ g

CONCENTRATION: 1 mg/mL

SPECIFICITY: The involvement of integrins in vascular proliferation, adhesion, and wound repair and have been well-documented. The integrin family of cell adhesion receptors consists of at least 16 membrane-associated heterodimers, composed of an alpha and beta subunit that associate in a non-covalent manner. The structure and functional diversity of the integrin family are based upon the pairing abilities of the individual alpha and beta subunits. Key to these molecular interactions between the integrin receptors and their respective ligands is the recognition of the Arg-Gly-Asp (RGD) sequence, known to be present in the extracellular matrix components fibronectin, vitronectin, collagen, fibrinogen, and von Willebrand factor. (*Cancer and Metastasis Reviews* 1991. **10**:3). Due to its involvement in angiogenesis, the integrin α V β 3 receptor is one of the most intensely studied of the integrin receptors. Monoclonal antibody MAB1976 is reactive with the vitronectin receptor α V β 3 complex, an RGD-directed adhesion receptor

ISOTYPE: IgG₁

CLONE: LM609

APPLICATIONS: Immunoprecipitation
Immunofluorescence: 10 μ g/mL for staining of bFGF-treated 6 μ m cryosections of chick chorioallantoic membrane fixed with acetone. [*Science* **264**:569-571 (1994)].
Inhibits adhesion of cells to vitronectin coated surfaces at 10-25 μ g/mL
Antibody MAB1976 is not effective for immunohistochemical staining of paraffin-embedded tissue sections.
Optimal working dilutions must be determined by end user.

SPECIES REACTIVITIES: Human, bovine, chick, monkey, porcine, canine, rabbit, and avian. Not reactive with rat tissue.

FORMAT: Purified immunoglobulin from Protein A Sepharose chromatography.

PRESENTATION: Liquid in 0.02M PB, pH 7.6, 0.25M NaCl containing 0.1% sodium azide.

STORAGE/HANDLING: Maintain at 2-8°C in undiluted aliquots for up to 6 months.



REFERENCES:

1. *J. Biol. Chemistry* **262**:17703-17711 (1987).
2. *PNAS. USA* **84**:6471-6475 (1987).
3. *J. Cell Biol.* **121**:1141-1152 (1993).
4. *Science* **264**:569-571 (1994).
5. *J. Biol. Chemistry* **271**:2443-2447 (1996).
6. *Cancer Research* **59**: 1635-1641(1999).
7. *Blood* **94(2)**: 649-662 (1999).

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