
Monoclonal Antibody to Human Angiogenin Ribonuclease 5

Monoclonal antibody MANG-1 is useful for detecting human angiogenin, a potent vessel inducing basic polypeptide, with a unique ribonucleolytic activity.

Product number: T-1140

Clone: MANG1

Lot: 01PO9402

TECHNICAL AND ANALYTICAL CHARACTERISTICS:

Host species, subclass: Mouse IgM

Quantity: 150µg

Format: Tissue culture supernatant, lyophilized

Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.3mg/ml IgM, phosphate buffered saline pH 7.2 (PBS), 10mg/ml bovine serum albumin (BSA) as a stabilizer and 0.01% thimerosal as a preservative.

Stability: Original vial: 1 year at 4° - 8°C

Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.

Applications: Tested for immunohistochemistry (IHC); has been reported to work in ELISA.

Approximate working dilution for IHC:

Frozen sections: 5µg/ml (1:60)

Paraffin sections: 10µg/ml (1:30); Proteinase K pretreatment for antigen retrieval is recommended.

Optimal dilutions should be determined by the end user.

Suggested positive control: Human tonsil.

Please see www.bma.ch for protocols and general information.

Immunogen: Recombinant human angiogenin.

Antigen, epitope: The antigen is angiogenin, the epitope has not been further characterized.

Antigen distribution: **Tissue sections:** MANG-1 stains single cells on cryostat sections of human tonsil. In human terminal placenta endothelial cells are stained positive.

Selected references

FETT, J.W., STYRDOM, D., LOBB, R., ALDERMAN, E., BETHUNE, L., RIORDAN, J., VALLEE, B.: Isolation and Characterization of Angiogenin, an angiogenic Protein from Human Carcinoma Cells. *Biochemistry*: **24**, (1985) 5480-5486.

SHAPIRO, R. & VALLEE, B.L.: Human placental ribonuclease inhibitor abolishes both angiogenic and ribonucleolytic activities of angiogenin. *Proc. Natl. Acad. Sci.* **84**, (1987): 2238-2241.

KURACHI, K., DAVIE, E.W., STRYDOM, D.J., RIORDAN, J.F., VALLEE, B.L.: Sequence of the cDNA and Gene for Angiogenin, a human Angiogenesis Factor. *Biochemistry*: **24** (1985): 5494-5499).

For in vitro research only. Caution: this product contains thimerosal, a poisonous and hazardous substance.