

Datasheet: 0555-5008

Description:	MOUSE ANTI HUMAN ANGIOGENIN
Specificity:	ANGIOGENIN
Format:	S/N
Product Type:	Monoclonal Antibody
Clone:	MANG-1
Isotype:	IgM
Quantity:	0.15 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen	▪			1/60
Immunohistology - Paraffin (1)	▪			1/30
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

(1)Proteinase K pretreatment for antigen retrieval is recommended for use with paraffin sections. See [Marioni et al. 2011](#)

Target Species	Human
Product Form	Tissue Culture Supernatant - lyophilized
Reconstitution	500 µl sterile deionised water
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Thiomersal 1% Bovine Serum Albumin

Approx. Protein Concentrations	IgM concentration 0.3 mg/ml
Immunogen	Recombinant human angiogenin.
External Database Links	<p>UniProt: P03950 Related reagents</p> <p>Entrez Gene: 283 ANG Related reagents</p>
Synonyms	RNASE5
RRID	AB_2274027
Specificity	<p>Mouse anti Human angiogenin antibody, clone MANG-1 is a monoclonal antibody specific for angiogenin, a potent angiogenesis inducing polypeptide of approximately 16.5kDa responsible for inducing vascularization in both normal and malignant tissues through activation of vascular endothelium and smooth muscle cells ant triggering a number of processes including Cell migration and proliferation (Reviewed in Gao et al.2008) Angiogenin, also known as ribonuclease 5 demonstrates tRNA specific ribonuclease activity (Saxena et al. 1992), this in turn is regulated by binding to the ribonuclease inhibitor RNH1 (Tuefel et al. 2003) . Angiogenin exerts its vascular stimulation potential through binding to cytoplasmic actin on the surface of endothelial cells, followed by endocytosis and subsequent translocation to the nucleus</p> <p>Mouse anti Angiogenin, clone MANG1 stains single cells on human tonsil sections and endothelial cells in human terminal placenta. MANG-1 also demonstrates intense staining on carcinoma cells and of endothelial cells in intratumoral vessels (Marioni et al. 2010)</p>
Histology Positive Control Tissue	Human tonsil
References	<ol style="list-style-type: none"> 1. Marioni, G. <i>et al.</i> (2010) Neoangiogenesis in laryngeal carcinoma: angiogenin and CD105 expression is related to carcinoma recurrence rate and disease-free survival. Histopathology. 57: 535-43. 2. Marioni, G. <i>et al.</i> (2013) The role of angiogenin in pT1-T2 tongue carcinoma neo-angiogenesis and cell proliferation: an exploratory study. J Oral Pathol Med. 42: 606-11. 3. Marioni, G. <i>et al.</i> (2011) Laryngeal carcinoma prognosis after postoperative radiotherapy correlates with CD105 expression, but not with angiogenin or EGFR expression. Eur Arch Otorhinolaryngol. 268: 1779-87. 4. Seilhean, D. <i>et al.</i> (2009) Accumulation of TDP-43 and alpha-actin in an amyotrophic lateral sclerosis patient with the K17I ANG mutation. Acta Neuropathol. 118: 561-73. 5. Marioni, G. <i>et al.</i> (2014) A panel of biomarkers for predicting response to postoperative RT for laryngeal cancer? Am J Otolaryngol. pii: S0196-0709(14)00137-9. 6. Pan, S.C. <i>et al.</i> (2012) Angiogenin expression in burn blister fluid: Implications for its role in burn wound neovascularization. Wound Repair Regen. 20: 731-9.

7. Kirby, J. *et al.* (2013) Lack of unique neuropathology in amyotrophic lateral sclerosis associated with p.K54E angiogenin (ANG) mutation. [Neuropathol Appl Neurobiol. 2013 Aug;39\(5\): 562-71.](#)
8. Marioni, G. *et al.* (2013) Indications for postoperative radiotherapy in laryngeal carcinoma: A panel of tumor tissue markers for predicting locoregional recurrence in surgically treated carcinoma. A pilot study. [Head Neck. 36: 1534-40.](#)
9. Lovato, A. *et al.* (2015) A Higher Angiogenin Expression is Associated With a Nonnuclear Maspin Location in Laryngeal Carcinoma [Clinical and Experimental Otorhinolaryngology. 8 \(3\): 268.](#)

Further Reading 1. Fett, J. W. *et al.* (1985) Isolation and characterization of angiogenin, an angiogenic protein from human carcinoma cells. [Biochemistry. 24: 5480-6.](#)

Storage This product is shipped at ambient temperature. Prior to reconstitution store at +4°C. After reconstitution it is recommended to aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10512 available at: 10512: <https://www.bio-rad-antibodies.com/uploads/MSDS/10512.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgM (STAR138...) [Alk. Phos.](#)
 Human Anti Mouse IgM (HCA040...) [FITC](#)
 Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgM NEGATIVE CONTROL \(MCA692\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
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