

## Product datasheet for **BM4098**

### Endostatin (COL18A1) Mouse Monoclonal Antibody [Clone ID: 1837-46]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	1837-46
Applications:	IHC
Recommended Dilution:	<b>Immunohistochemistry on Frozen Sections:</b> 5-10 µg/ml (1/40-1/80). <b>Immunohistochemistry on Paraffin Sections:</b> 5-10 µg/ml (1/40-1/80). Microwave pretreatment in citrate buffer is recommended for antigen retrieval in paraffin embedded tissues. <i>Recommended Positive Control:</i> Human tonsil.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Recombinant Human Endostatin (the carboxy-terminal domain)
Specificity:	This Monoclonal antibody Clone 1937-46 is directed against the Endostatin portion (the carboxy-terminal domain) of Collagen XVIII.
Formulation:	Stock solution contains PBS, pH 7.2 with 5 mg/ml BSA as a stabilizer and 0.09% Sodium Azide as preservative State: Purified State: Lyophilized purified Ig fraction
Reconstitution Method:	Restore with 0.5 ml distilled water.
Concentration:	0.4 mg/ml (after reconstitution)
Purification:	Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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Gene Name:	collagen type XVIII alpha 1 chain
Database Link:	<a href="#">Entrez Gene 80781 Human P39060</a>
Background:	Endostatin is a powerful inhibitor of endothelial cell proliferation and angiogenesis and shows widespread distribution, mainly in vessel walls and some other basement membrane zones.
Synonyms:	COL18A1, Endostatin, KNO1
Note:	<p>Protocol: <b>Protocol for Immunohistochemistry on paraffin sections:</b></p> <ol style="list-style-type: none"><li>1) Deparaffinize slides in chloroform for 30min and rehydrate to distilled water</li><li>2) Antigen retrieval: microwave treatment (700W) for 15min in 300ml 0.01M citrate buffer pH 6.0.</li><li>3) Incubate slides for 15min in 200ml methanol/4.8ml 30%H<sub>2</sub>O<sub>2</sub></li><li>4) Rinse slides 2x in distilled water and for 5min in TBS, pH 7.5</li><li>5) Block with normal swine serum (NSS, Jackson Immunoresearch #014-000-121) diluted 1:10 in Tris buffered saline pH 7.5, containing 0.1% bovine serum albumin (BSA, Calbiochem). Cover sections with NSS and incubate for 15min in a humid chamber at room temperature (RT).</li><li>6) Remove serum from sections (do not rinse)</li><li>7) Incubate with primary antibody diluted in TBS/0.1%BSA, pH 7.5 for 60min in a humid chamber at room temperature</li><li>8) Rinse sections in TBS, pH 7.5 for 5min, 2x</li><li>9) Incubate with secondary antibody (rabbit anti mouse IgG+IgM-biotin, Dako E 0464) 1:400 diluted in TBS/0.1%BSA, pH 7.5 for 30min in a moist chamber, room temperature. Preincubate now StreptABComplex /HRPO in TBS/0.1%BSA, pH 7.5!</li><li>10) Rinse sections in TBS, pH 7.5 for 5min, 2x</li><li>11) Incubate with StreptABComplex /HRPO (DAKO, K 0377) for 30min in a humid chamber at room temperature</li><li>12) Rinse sections in TBS, pH 7.5 for 5min, 2x</li><li>13) DAB-staining Prepare 3,3 - diaminobenzidintetrahydrochloride (DAB) according the manufacturers instructions (e.g. DAB tablets) and incubate slides for 1-15 min. Check color reaction to avoid overstaining.</li><li>14) Rinse sections in TBS, pH 7.5 for 5min, 2x</li><li>15) Counterstain in haematoxylin for 1min and rinse in cold tap water for 10min</li><li>16) Mount slides with coverslips</li></ol>