

**Certificate of Analysis**

**Analysezertifikat**

**Certificat d'Analyse**

<b>Product name</b>	Vitronectin, Human, clone BV1		
<b>Catalog number</b>	TE2036-100UG		
<b>Lot number</b>	xxxxxXxxxx	<b>Expiry date</b>	MMM YYYY
<b>Volume</b>	1 ml	<b>Amount</b>	100 µg
<b>Formulation</b>	0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3	<b>Concentration</b>	100 µg/ml
<b>Host Species</b>	Mouse IgG1	<b>Conjugate</b>	None
<b>Endotoxin</b>	N.A.	<b>Purification</b>	Protein G
<b>Storage</b>	4°C		

**Application notes**

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #								
Yes			•	•		•	•	•
No								
N.D.	•	•			•			

*N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot*

Dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50.

**General Information**

<b>Description</b>	Monoclonal antibody BV1 recognizes human vitronectin. Vitronectin is an abundant glycoprotein (~75 kDa), consisting of 459 amino acids. About one third of the protein molecular mass is composed of carbohydrates. Vitronectin is found in blood plasma and the extracellular matrix. Vitronectin is a multifunctional protein, since it promotes attachment and spreading of animal cells in vitro, it inhibits cytolysis by the complement C5b-9 complex, and it modulates antithrombin III-thrombin action in blood coagulation. The protein consists of three domains: the N-terminal Somatomedin B domain (1-39), a central domain with hemopexin homology (131-342) and a C-terminal domain (347-459) also with hemopexin homology. The Somatomedin B domain binds to Plasminogen Activator Inhibitor-1 (PAI-1) and is responsible for PAI-1 stabilization. Furthermore, the Somatomedin B domain can also interact with the urokinase plasminogen activator receptor (uPAR). Vitronectin-uPAR interaction is required and sufficient to initiate downstream changes in cell morphology, migration and signal transduction. High plasma levels of both PAI-1 and uPAR have been shown to correlate with a negative prognosis for cancer patients. Additionally, vitronectin is a component of platelets and is as such involved in hemostasis. Amino acid 45-47 (RGD) are capable of binding to membrane bound integrins, which serve to anchor cells to the extracellular matrix. Vitronectin in plasma is an inactive monomer form. In contrast, tissue vitronectin is an active multimeric form and is able to interact with various matrix ligands like proteoglycans and collagen. Mice with a genetic deletion of vitronectin show delayed wound healing, suggesting an important role of vitronectin in tissue remodeling after injury. The monoclonal antibody BV1 binds to soluble vitronectin as well as to membrane bound vitronectin.
<b>Aliases</b>	Serum spreading factor, complement S-protein
<b>References</b>	<ol style="list-style-type: none"> <li>Martin-Padura, I et al; Expression of VE (vascular endothelial)-cadherin and other endothelial-specific markers in haemangiomas. J path 1995, 175: 51</li> <li>Zanetti, A et al; Clustering of vitronectin and RGD peptides on microspheres leads to engagement of integrins on the luminal aspect of endothelial cell membrane. Blood 1994, 84: 1116</li> </ol>
<b>Storage&amp;stability</b>	Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.
<b>Precautions</b>	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.

---

We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC

Date

Do you have any questions or comments regarding this product? Please contact us via [info@tecomedical.com](mailto:info@tecomedical.com)

[www.tecomedical.com](http://www.tecomedical.com)



A EURO BIO SCIENTIFIC COMPANY

Switzerland  
**TECO medical AG**  
Gewerbstrasse 10  
4450 Sissach  
Phone +41 61 985 81 00  
Fax +41 61 985 81 09  
Mail [info@tecomedical.com](mailto:info@tecomedical.com)

Germany  
**TECO medical GmbH**  
Wasserbreite 57  
32257 Bünde  
Phone +49 52 23 985 99 99  
Fax +49 52 23 985 99 98  
Mail [info@tecomedical.com](mailto:info@tecomedical.com)

Benelux  
**TECO medical Benelux BV**  
Computerweg 22  
3542 DR Utrecht, The Netherlands  
Phone +31 30 307 87 30  
Fax +31 30 307 49 39  
Mail [benelux@tecomedical.com](mailto:benelux@tecomedical.com)

Austria  
**TECO medical AG**  
Phone 0800 20 40 66  
Fax 0800 20 40 55  
Mail [info@tecomedical.com](mailto:info@tecomedical.com)