

## OriGene Technologies, Inc.

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## Product datasheet for AM26283PU-N

## Vitronectin (VTN) Mouse Monoclonal Antibody [Clone ID: BV1]

## **Product data:**

| Product Type:         | Primary Antibodies                                                                                                                                                                                                |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Clone Name:           | BV1                                                                                                                                                                                                               |
| Applications:         | ELISA, IF, IP, WB                                                                                                                                                                                                 |
| Recommended Dilution: | Flow cytometry: The typical starting working dilution is 1:50.<br>Immunoassays.<br>Immunoflourescence.<br>Immunoprecipitation.<br>Western blot: The typical starting working dilution is 1:50.                    |
| Reactivity:           | Human                                                                                                                                                                                                             |
| Host:                 | Mouse                                                                                                                                                                                                             |
| lsotype:              | lgG1                                                                                                                                                                                                              |
| Clonality:            | Monoclonal                                                                                                                                                                                                        |
| Specificity:          | Monoclonal antibody BV1 recognizes human vitronectin. Vitronectin is an abundant glycoprotein (~75 kDa), consisting of 459 amino acids. It binds to soluble vitronectin as well as to membrane bound vitronectin. |
| Formulation:          | PBS<br>State: Purified<br>State: Liquid 0.2 µm filtered Ig fraction<br>Stabilizer: 0.1% bovine serum albumin<br>Preservative: 0.02% sodium azide                                                                  |
| Concentration:        | lot specific                                                                                                                                                                                                      |
| Purification:         | Protein G                                                                                                                                                                                                         |
| Conjugation:          | Unconjugated                                                                                                                                                                                                      |
| Storage:              | Store at 2 - 8 °C.                                                                                                                                                                                                |
| Stability:            | Shelf life: one year from despatch.                                                                                                                                                                               |
| Gene Name:            | vitronectin                                                                                                                                                                                                       |
| Database Link:        | <u>Entrez Gene 7448 Human</u><br><u>P04004</u>                                                                                                                                                                    |



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|             | Vitronectin (VTN) Mouse Monoclonal Antibody [Clone ID: BV1] – AM26283PU-N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Background: | 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.                                                                                                                                                                                                                                                                                                                                                                                                         |
|             | central domain with hemopexin homology (131-342) and a C-terminal domain (1459), a<br>with hemopexin homology. The Somatomedin B domain binds to Plasminogen Activator<br>Inhibitor-1 (PAI-1) and is responsible for PAI-1 stabilization. Furthermore, the Somatomedin B<br>domain can also interact with the urokinase plasminogen activator receptor (uPAR).<br>Vitronectin-uPAR interaction is required and sufficient to initiate downstream changes in cell<br>morphology, migration and signal transduction. High plasma levels of both PAI-1 and uPAR<br>have been shown to correlate with a negative prognosis for cancer patients. Additionally,<br>vitronectin is a component of platelets and is as such involved in hemostasis. Amino acid 45-<br>47 (RGD) are capable of binding to membrane bound integrins, which serve to anchor cells to<br>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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Synonyms:   | VTN, S-protein, V75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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