

# Product Datasheet

## MUC1 Antibody (VU-2G7) [PE/Atto594] NBP2-47882PEATT594

Unit Size: 0.1 ml

Store at 4C in the dark. Do not freeze.

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**NBP2-47882PEATT594**

MUC1 Antibody (VU-2G7) [PE/Atto594]

| Product Information         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unit Size                   | 0.1 ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Concentration               | Please see the vial label for concentration. If unlisted please contact technical services.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Storage                     | Store at 4C in the dark. Do not freeze.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Clonality                   | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Clone                       | VU-2G7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Preservative                | 0.05% Sodium Azide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Isotype                     | IgG1 Kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Conjugate                   | PE/Atto594                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Purity                      | Protein A or G purified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Buffer                      | PBS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Product Description         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Host                        | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Gene ID                     | 4582                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Gene Symbol                 | MUC1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Species                     | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Marker                      | Epithelial Marker                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Specificity/Sensitivity     | monoclonal antibody VU-2G7 reacts with MUC1, a large transmembrane glycoprotein expressed on the ductal surface of normal glandular epithelia. The dominant epitope of VU-2G7 has not been established with 'epitope fingerprinting'. The extra cellular domain of MUC1 largely consists of a highly conserved, O-glycosylated 20 amino acids tandem repeat which can occur 30-100 times per molecule depending on the length of the allele involved. In the vast majority of human carcinomas this protein is up regulated and poorly glycosylated and appears on the cell surface in a non-polarized fashion. |
| Immunogen                   | Synthetic glycosylated MUC1 60mer tandem repeat NH <sub>2</sub> -(HGVTSAPDT (GalNAc)RPAPGSTAPPAHG)3- COOH, conjugated to bovine serum albumin (Uniprot: P15941)                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Product Application Details |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Application Notes           | Optimal dilution of this antibody should be experimentally determined. For optimal results using our Tandem dyes, please avoid prolonged exposure to light or extreme temperature fluctuations. These can lead to irreversible degradation or decoupling. When staining intracellular targets, specific attention to the fixation and permeabilization steps in your flow protocol may be required. Please contact our technical support team at <a href="mailto:technical@novusbio.com">technical@novusbio.com</a> if you have any questions.                                                                  |





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### **General Contact Information**

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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