

# Product Datasheet

## **TGF-alpha Antibody (SPM542) [Janelia Fluor® 669] NBP2-34418JF669**

Unit Size: 0.1 ml

Store at 4C in the dark.

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**NBP2-34418JF669**TGF- $\alpha$  Antibody (SPM542) [Janelia Fluor® 669]

| 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Clonality                   | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Clone                       | SPM542                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Preservative                | 0.05% Sodium Azide                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Isotype                     | IgM Kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Conjugate                   | Janelia Fluor 669                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Purity                      | Protein L or PEG purified                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Buffer                      | 50mM Sodium Borate                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Product Description         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Host                        | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Gene ID                     | 7039                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Gene Symbol                 | TGFA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Species                     | Human, Rabbit, Zebrafish                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Specificity/Sensitivity     | This antibody reacts with the TGF $\alpha$ and shows no cross-reaction with EGF and the neuropeptide synenkephalin. The staining with this monoclonal antibody is completely blocked by the peptide used for raising this antibody. TGF ( $\alpha$ 50) is a growth factor with 33% homology to EGF, binds to EGFR, activates tyrosine phosphorylation of the receptor, and stimulates cell proliferation. It plays a role in tumor initiation by inducing the reversible transformed phenotype. |
| Immunogen                   | A 10-amino acid synthetic peptide ( $\alpha$ 34-43; PPVAAAVVSH) from human TGF- $\alpha$ (Uniprot: P01135)                                                                                                                                                                                                                                                                                                                                                                                      |
| Notes                       | Sold under license from the Howard Hughes Medical Institute, Janelia Research Campus.                                                                                                                                                                                                                                                                                                                                                                                                           |
| Product Application Details |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Applications                | Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, CyTOF-ready                                                                                                                                                                                                                                                                                                                                                         |
| Recommended Dilutions       | Western Blot, Flow Cytometry, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, CyTOF-ready                                                                                                                                                                                                                                                                                                                                                         |
| Application Notes           | Optimal dilution of this antibody should be experimentally determined.                                                                                                                                                                                                                                                                                                                                                                                                                          |





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP2-34418JF669**

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|                  |                                     |
|------------------|-------------------------------------|
| NBP2-36432-100ug | Human TGF-alpha Recombinant Protein |
| 7754-BH-005/CF   | TGF-beta 1 [Unconjugated]           |
| 239-A-100        | TGF-alpha [Unconjugated]            |
| 236-EG-200       | EGF [Unconjugated]                  |

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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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