

# Product Datasheet

## PD-ECGF/Thymidine Phosphorylase Antibody (rTYMP/3444) [Janelia Fluor® 669] NBP3-08359JF669

Unit Size: 0.1 ml

Store at 4C in the dark.

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**NBP3-08359JF669**

PD-ECGF/Thymidine Phosphorylase Antibody (rTYMP/3444) [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                       | rTYMP/3444  |
| Preservative                | 0.05% Sodium Azide  |
| Isotype                     | IgG1 Kappa  |
| Conjugate                   | Janelia Fluor 669   |
| Purity                      | Protein A or G purified   |
| Buffer                      | 50mM Sodium Borate  |
| Product Description         |   |
| Host                        | Mouse   |
| Gene ID                     | 1890  |
| Gene Symbol                 | TYMP  |
| Species                     | Human, Mouse, Rat   |
| Marker                      | Angiogenesis Marker   |
| Specificity/Sensitivity     | Recognizes a protein (amino acid 482) of 55kDa (in vivo 110kDa homodimer), identified as platelet-derived endothelial growth factor (PD-ECGF), same as thymidine phosphorylase (TP) or gliostatin. In the presence of inorganic orthophosphate, it catalyzes the reversible phospholytic cleavage of thymidine and deoxyuridine to their corresponding bases and 2-deoxyribose-1-phosphate. It is both chemotactic and mitogenic for endothelial cells and a non-heparin binding angiogenic factor present in platelets. Its enzymatic activity is crucial for angiogenic activity (metabolite is angiogenic). Higher levels of serum TP/PD-ECGF are observed in cancer patients. It is also involved in transformation of fluoropyrimidines, cytotoxic agents used in the treatment of a variety of malignancies, into active cytotoxic metabolites (e.g. 5-deoxy-5-fluorouridine to 5-FU). High intra-cellular levels of TP/PD-ECGF are associated with increased chemosensitivity to such antimetabolites. |
| Immunogen                   | Recombinant full-length human PD-ECGF/Thymidine Phosphorylase protein (Uniprot: P19971 )  |
| Notes                       | Sold under license from the Howard Hughes Medical Institute, Janelia Research Campus.   |
| Product Application Details |   |
| Applications                | Western Blot, Immunohistochemistry-Paraffin   |
| Recommended Dilutions       | Western Blot, Immunohistochemistry-Paraffin   |
| Application Notes           | Optimal dilution of this antibody should be experimentally determined.  |



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### **Products Related to NBP3-08359JF669**

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|               |   |
|---------------|---|
| NBP1-84916PEP | PD-ECGF/Thymidine Phosphorylase Recombinant Protein Antigen |
| 210-TA-005    | TNF-alpha [Unconjugated]                                    |
| 229-PE-010/CF | PD-ECGF/Thymidine Phosphorylase [Unconjugated]              |
| DVE00         | VEGF [HRP]  |

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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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