

# Product Datasheet

## **PD-ECGF/Thymidine Phosphorylase Antibody (TYMP/2890R) [Alexa Fluor® 594] NBP3-08402AF594**

Unit Size: 100 ul

Store at 4C in the dark.

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**NBP3-08402AF594**

PD-ECGF/Thymidine Phosphorylase Antibody (TYMP/2890R) [Alexa Fluor® 594]

| Product Information     |   |
|-------------------------|---|
| Unit Size               | 100 ul  |
| Concentration           | Please see the vial label for concentration. If unlisted please contact technical services.   |
| Storage                 | Store at 4C in the dark.  |
| Clonality               | Monoclonal  |
| Clone                   | TYMP/2890R  |
| Preservative            | 0.05% Sodium Azide  |
| Isotype                 | IgG   |
| Conjugate               | Alexa Fluor 594   |
| Purity                  | Protein A or G purified   |
| Buffer                  | 50mM Sodium Borate  |
| Product Description     |   |
| Host                    | Rabbit  |
| 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)   |

|              |  |
|--------------|--|
| <b>Notes</b> | <p>Alexa Fluor (R) products are provided under an intellectual property license from Life Technologies Corporation. The purchase of this product conveys to the buyer the non-transferable right to use the purchased product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components, or any materials made using the product or its components, in any activity to generate revenue, which may include, but is not limited to use of the product or its components: (i) in manufacturing; (ii) to provide a service, information, or data in return for payment; (iii) for therapeutic, diagnostic or prophylactic purposes; or (iv) for resale, regardless of whether they are resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or <a href="mailto:outlicensing@lifetech.com">outlicensing@lifetech.com</a>. This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.</p> |
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| <b>Product Application Details</b> |  |
|------------------------------------|--|
| <b>Applications</b>                | Western Blot, Immunohistochemistry-Paraffin                            |
| <b>Recommended Dilutions</b>       | Western Blot, Immunohistochemistry-Paraffin                            |
| <b>Application Notes</b>           | Optimal dilution of this antibody should be experimentally determined. |



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### **Products Related to NBP3-08402AF594**

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|               |   |
|---------------|---|
| IC1051T       | Rabbit IgG Isotype Control (60024B) [Alexa Fluor® 594]      |
| NBP1-84916PEP | PD-ECGF/Thymidine Phosphorylase Recombinant Protein Antigen |
| 210-TA-005    | TNF-alpha [Unconjugated]                                    |
| 229-PE-010/CF | PD-ECGF/Thymidine Phosphorylase [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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