

# Product Datasheet

## **PD-ECGF/Thymidine Phosphorylase Antibody (TYMP/2890R) [Alexa Fluor® 488] NBP3-08402AF488**

Unit Size: 100 ul

Store at 4C in the dark.

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**NBP3-08402AF488**

PD-ECGF/Thymidine Phosphorylase Antibody (TYMP/2890R) [Alexa Fluor® 488]

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 488
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)



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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 NBP3-08402AF488**

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NBP2-24982	Rabbit IgG Isotype Control [Alexa Fluor® 488]
NBP2-55129PEP	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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