

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects mouse PD-ECGF/Thymidine Phosphorylase in direct ELISAs. Detects human, mouse, and rat PD-ECGF/Thymidine Phosphorylase in Western blots.
Source	Monoclonal Rat IgG _{2B} Clone # 826722
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant mouse PD-ECGF/Thymidine Phosphorylase Met1-Pro471 Accession # Q99N42
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

TYMP (Thymidine phosphorylase/TP; also [PD]-ECGF/platelet-derived endothelial cell growth factor, gliostatin and TdRPase) is a 50-55 kDa member of the pyrimidine-nucleoside phosphorylase family of enzymes. TYMP/TP is both a cytosolic and secreted molecule that is expressed by a variety of cell types, including, macrophages, hepatocytes, endometrial gland epithelium, vascular smooth muscle and endothelial cells. It has also been found in select tumor cell types, and via an angiogenic activity, has been proposed to promote tumor growth. TYMP converts thymidine to thymine and 2-deoxy-ribose-1P, and it is the 2-deoxy-ribose component that is believed to promote endothelial cell migration (but not proliferation). This may be due to the fact that 2-deoxy-ribose induces reactive oxygen species, which drive the production of angiogenic factors, and that 2-deoxy-ribose also activates endothelial cell integrins. Mouse TYMP is 471 amino acids (aa) in length. It contains a phosphorylase domain (aa 96-348), followed by a C-terminal region (aa 374-448). Although TYMP circulates, there is no definitive signal sequence. TYMP is known to form homodimers. Full-length mouse TYMP (aa 1-471) shares 80% and 92% aa sequence identity with human and rat TYMP, respectively.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the 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 (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.