

Product datasheet for **DM292**

Thymidine Phosphorylase (TYMP) Mouse Monoclonal Antibody [Clone ID: P-GF.44C]

Product data:

Product Type:	Primary Antibodies
Clone Name:	P-GF.44C
Applications:	IHC, WB
Recommended Dilution:	Immunohistochemistry on Formalin-Fixed Paraffin Embedded Sections: Use a dilution of 1/25-1/75 in an ABC method (30 minutes at room temperature). Western blotting: 1/50-1/100. Recommended Positive Control: Breast carcinoma.
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	A recombinant full length human thymidine phosphorylase (TP/PD-ECGF) protein.
Specificity:	This antibody is specific to a 55 kD protein known as Platelet-Derived Endothelial Growth Factor (PD-ECGF), similar to thymidine phosphorylase (TP). Cellular localization: Cytoplasmic, Nuclear.
Formulation:	State: Purified State: Liquid purified Ig fraction containing Sodium Azide as preservative.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	thymidine phosphorylase
Database Link:	Entrez Gene 1890 Human P19971



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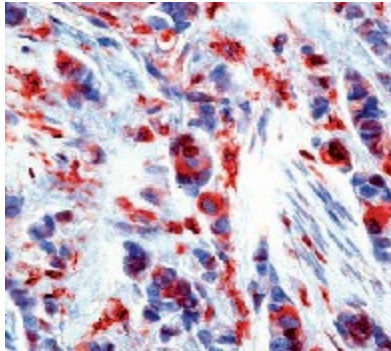
Background:

Platelet - derived endothelial growth factor (PD-ECGF), same as thymidine phosphorylase (TP) or gliostatin. In the presence of inorganic orthophosphate, it catalyses 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. It is also involved in transformation of fluoropyrimidines, cytotoxic agents used in the treatment of a variety of malignancies, into active cytotoxic metabolites.

High levels of TP/PD-ECGF are observed in cancer patients. High intra-cellular levels of TP/PD-ECGF are associated with increased chemosensitivity to such antimetabolites.

Synonyms:

TdRPase, PD-ECGF, ECGF1, Gliostatin

Product images:

Formalin fixed paraffin embedded human breast carcinoma stained with Thymidine Phosphorylase antibody DM292 / DM292-05