

Product datasheet for **TA326922**

Thymidine Phosphorylase (TYMP) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB 1:500 - 1:2000
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human TYMP
Formulation:	Store at -20C or -80C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	thymidine phosphorylase
Database Link:	NP_001944 Entrez Gene 1890 Human P19971



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Background:

Thymidine phosphorylase (TP) is a platelet-derived endothelial cell growth factor (PD-ECGF) that catalyzes the formation of thymine and 2-deoxy-D-ribose-1-phosphate from thymidine and orthophosphate. This intracellular enzyme is capable of both promoting angiogenesis and inhibiting apoptosis. Thymidine phosphorylase catalytic activity is required for its angiogenic function. Increased expression of TP/PD-ECGF is seen in a wide variety of different solid tumors and inflammatory diseases and is often associated with poor prognosis. Alternatively, TP can activate fluorouracil derivative (DFUR) prodrugs and increase the antitumor activity of the related treatment. The use of thymidine phosphorylase as a cancer therapeutic target has been studied extensively, with emphasis on either inhibiting TP enzymatic activity or increasing enzyme induction with concomitant DFUR treatment.

Synonyms:

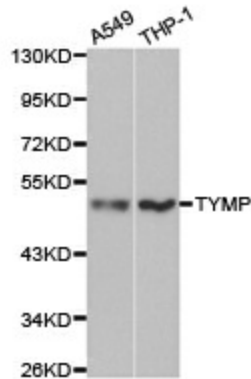
ECGF; ECGF1; hPD-ECGF; MEDPS1; MNGIE; MTDPS1; PDECGF; TP

Protein Families:

Druggable Genome

Protein Pathways:

Bladder cancer, Drug metabolism - other enzymes, Metabolic pathways, Pyrimidine metabolism

Product images:

Western blot analysis of extracts of various cell lines, using TYMP antibody.