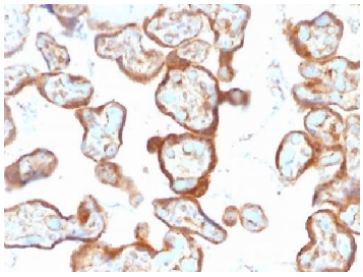
Thymidine Phosphorylase Antibody / PD-ECGF [clone SPM322] (V3387)

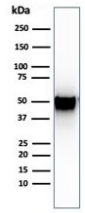
Catalog No.	Formulation	Size
V3387-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3387-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3387SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	SPM322
Purity	Protein G affinity chromatography
UniProt	P19971
Localization	Cytoplasmic, nuclear
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Western Blot : 1-2ug/ml
Limitations	This Thymidine Phosphorylase antibody is available for research use only.



Thymidine Phosphorylase Antibody Placenta Immunohistochemistry. IHC testing of FFPE human placenta with Thymidine Phosphorylase antibody (clone SPM322). Required HIER: requires boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



Thymidine Phosphorylase Antibody Human Spleen WB. Western blot testing of human spleen lysate with Thymidine Phosphorylase antibody (clone SPM322). Predicted molecular weight ~55 kDa.

Description

Thymidine Phosphorylase Antibody recognizes a 485 amino acid protein (55 kDa monomer / 110 kDa homodimer), identified as platelet-derived endothelial growth factor (PD-ECGF), also called Thymidine Phosphorylase (TP, Tymp) 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 anti-metabolites. PD-ECGF Antibody Placenta IHC. Immunohistochemistry analysis of FFPE human placenta tissue stained with PD-ECGF antibody detecting thymidine phosphorylase (TYMP), clone rTYMP/3444. Trophoblastic and epithelial cell layers show cytoplasmic staining with moderate to strong intensity, consistent with expression of PD-ECGF as a cytosolic enzyme and angiogenesis-associated factor involved in vascular development and tissue remodeling. The staining highlights placental structures associated with active vascular exchange, while surrounding stromal regions show comparatively lower signal. Hematoxylin counterstain highlights nuclei in blue. HIER: boil tissue sections in pH 9 10 mM Tris with 1 mM EDTA for 20 min and allow to cool before testing.

Explore our Thymidine Phosphorylase Antibody - Angiogenesis and Nucleotide Metabolism Marker (TYMP/2890R) page for a broader view of TYMP expression in metabolism and tumor-associated angiogenesis.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the Thymidine Phosphorylase antibody to be titered up or down for optimal performance.

Immunogen

Human recombinant full length protein was used as the immunogen for this Thymidine Phosphorylase antibody.

Storage

Store the Thymidine Phosphorylase antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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