

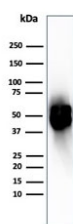
Recombinant Thymidine Phosphorylase Antibody / PD-ECGF [clone TYMP/2890R] (V3978)

Catalog No.	Formulation	Size
V3978-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3978-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3978SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

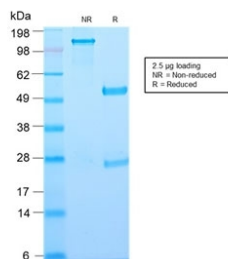
Recombinant **RABBIT MONOCLONAL**

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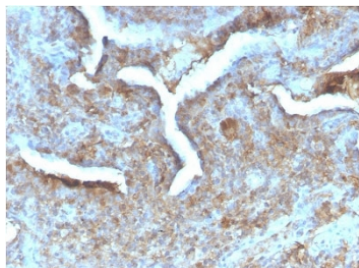
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	TYMP/2890R
Purity	Protein A affinity chromatography
UniProt	P19971
Localization	Cytoplasmic, nuclear
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Western Blot : 1-2ug/ml
Limitations	This recombinant Thymidine Phosphorylase antibody is available for research use only.



Western blot testing of human spleen tissue with recombinant Thymidine Phosphorylase antibody. Predicted molecular weight ~55 kDa.



SDS-PAGE analysis of purified, BSA-free recombinant Thymidine Phosphorylase antibody (clone TYMP/2890R) as confirmation of integrity and purity.



IHC staining of FFPE human prostate carcinoma with recombinant Thymidine Phosphorylase antibody (clone TYMP/2890R). Required HIER: requires boil tissue sections in 10mM citrate buffer, pH 6, for 10-20 min and allow to cool before testing.

Description

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 antimetabolites.

Application Notes

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

Immunogen

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

Storage

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

