

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

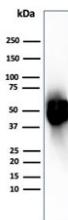
Catalog No.	Formulation	Size
V3978-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3978-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3978SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

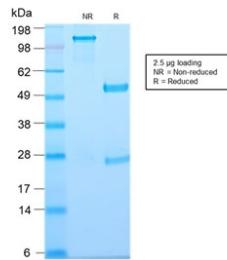
Recombinant **RABBIT MONOCLONAL**

**Bulk quote request**

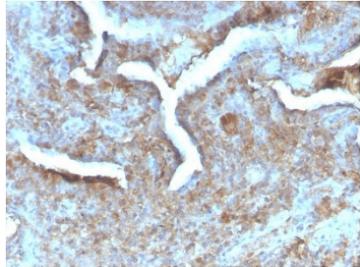
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	TYMP/2890R
Purity	Protein A affinity chromatography
UniProt	P19971
Localization	Cytoplasmic, nuclear
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Western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

