

## Thymidine Phosphorylase Antibody / PD-ECGF [clone P-GF.44C] (V3416)

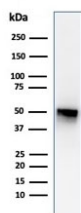
Catalog No.	Formulation	Size
V3416-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3416-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3416SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug



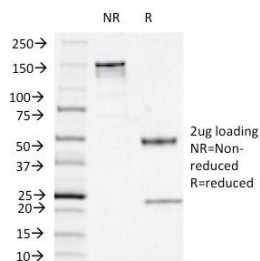
Citations (24)

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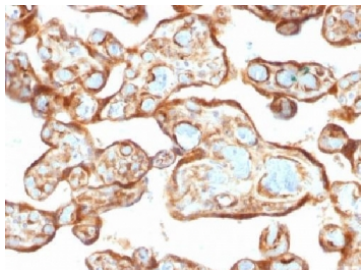
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Format</b>	Purified
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG1, kappa
<b>Clone Name</b>	P-GF.44C
<b>Purity</b>	Protein G affinity chromatography
<b>Buffer</b>	1X PBS, pH 7.4
<b>UniProt</b>	P19971
<b>Localization</b>	Cytoplasmic, nuclear
<b>Applications</b>	Western Blot : 0.5-1ug/ml Immunoprecipitation : 0.5-1ug/500ug protein lysate Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
<b>Limitations</b>	This Thymidine Phosphorylase antibody is available for research use only.



Western blot testing of human spleen lysate with Thymidine Phosphorylase antibody (clone P-GF.44C). Predicted molecular weight ~55 kDa.



SDS-PAGE Analysis of Purified, BSA-Free Thymidine Phosphorylase Antibody (clone P-GF.44C). Confirmation of Integrity and Purity of the Antibody.



IHC testing of FFPE human placenta with Thymidine Phosphorylase antibody (clone P-GF.44C). Required HIER: requires boil tissue sections in 10mM citrate buffer, pH 6, for 10-20 min followed by cooling at RT for 20 min.

## 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 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 Thymidine Phosphorylase antibody.

## Storage

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