

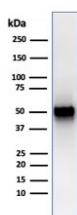
Recombinant PD-ECGF Antibody / Thymidine Phosphorylase [clone rTYMP/3444] (V8507)

Catalog No.	Formulation	Size
V8507-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8507-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8507SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

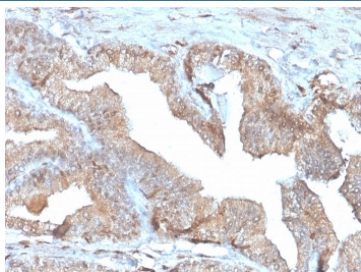
Recombinant MOUSE MONOCLONAL

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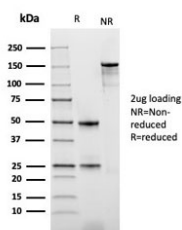
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rTYMP/3444
Purity	Protein G affinity chromatography
UniProt	P19971
Localization	Cytoplasmic, nuclear
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT Western Blot : 1-2ug/ml
Limitations	This recombinant PD-ECGF antibody is available for research use only.



Western blot testing of human spleen lysate with recombinant PD-ECGF antibody (clone rTYMP/3444). Predicted molecular weight ~55 kDa.



IHC staining of FFPE human placenta with recombinant PD-ECGF antibody (clone rTYMP/3444). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free recombinant PD-ECGF antibody (clone rTYMP/3444) as confirmation of integrity and purity.

Description

Recognizes a protein (amino acid 482) of 55kDa (in vivo 110kDa homodimer), identified as platelet-derived endothelial growth factor (PD-ECGF), same as thymidine phosphorylase (TP) 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

Optimal dilution of the recombinant PD-ECGF antibody should be determined by the researcher.

Immunogen

Recombinant full-length human protein was used as the immunogen for the recombinant PD-ECGF antibody.

Storage

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