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36-2191: Anti-Thymidine Phosphorylase / PD-ECGF (Angiogenesis Marker) Monoclonal Antibody(Clone: TYMP/2890R)

Clonality :	Monoclonal
Clone Name :	TYMP/2890R
Application :	WB,IHC
Reactivity :	Human, Mouse, Rat
Gene :	TYMP
Gene ID :	1890
Uniprot ID :	P19971
Alternative Name :	ECGF; ECGF1; Gliostatin; hPD-ECGF; MEDPS1; MNGIE; MTDPS1; PD-ECGF; PDECGF; Platelet-derived endothelial cell growth factor; TdRPase; Thymidine phosphorylase; TP; Tymp
Isotype :	Rabbit IgG
Immunogen Information :	Recombinant full-length human Thymidine Phosphorylase (TP / PD-ECGF) protein

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.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

Western Blot (2-4ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

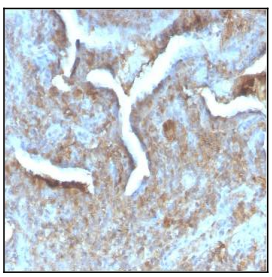


Fig. 1: Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with Thymidine Phosphorylase Rabbit Recombinant Monoclonal (TYMP/2890R).

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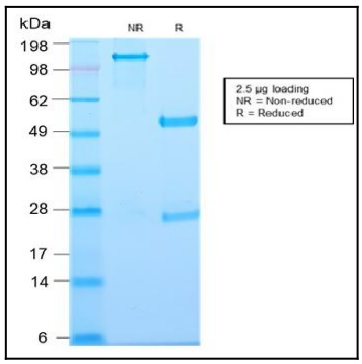


Fig. 2: SDS-PAGE Analysis of Purified Thymidine Phosphorylase Rabbit Recombinant Monoclonal (TYMP/2890R). Confirmation of Purity and Integrity of Antibody.

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