

Mouse Thymidine Phosphorylase/PD-ECGF Monoclonal Antibody | anti-TYMP antibody

Thymidine Phosphorylase/PD-ECGF (Angiogenesis Marker)

CATALOG # AAA215422	HOST Mouse	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry
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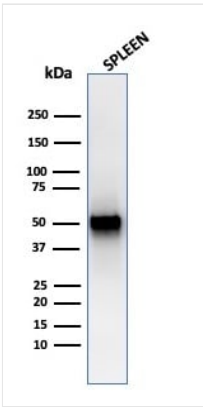
PRODUCT SYNONYMS

Thymidine Phosphorylase/PD-ECGF; Monoclonal Antibody; Thymidine Phosphorylase/PD-ECGF (Angiogenesis Marker); ECGF; ECGF1; Gliostatin; hPD-ECGF; MEDPS1; MNGIE; MTDPS1; PD-ECGF; PDECGF; Platelet-derived endothelial cell growth factor; TdRPase; Thymidine phosphorylase; TP; Tymp; anti-TYMP antibody

PRODUCT SPECIFICATIONS

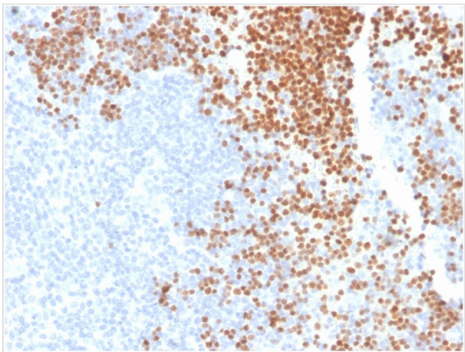
Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	rTYMP/3444
Specificity	Recognizes a protein (amino acid 482) of 55kDa (in vivo 110kDa homodimer), identified as platelet-derived endothelial growth factor (PD-ECGF), same as thymidine phosphorylase (TP) or gliostatin. 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.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml or Purified Ab with BSA and Azide at 200ug/ml or Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/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.
Sequence Length	482
Applicable Applications for anti-TYMP antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant full-length Human Thymidine Phosphorylase (TP / PD-ECGF) protein
Cellular Localization	Cytoplasmic and Nuclear
Antibody Type	Recombinant Antibody
Hu-chromosome Location	22q13.33
Positive Control	Breast, Bladder, Spleen, Lung or Kaposi tumors (IHC).
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



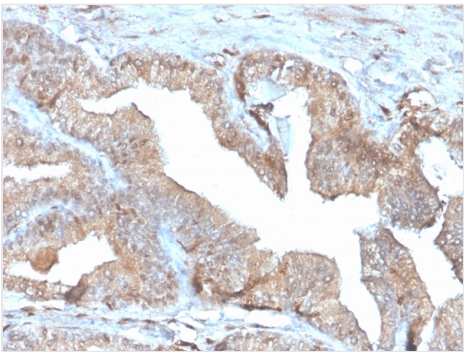
WB (Western Blot)

Western Blot Analysis of human spleen tissue lysate using PD-ECGF Recombinant Mouse Monoclonal Antibody (rTYMP/3444).



SDS-PAGE

SDS-PAGE Analysis Purified PD-ECGF Recombinant Mouse Monoclonal Antibody (rTYMP/3444). Confirmation of Integrity and Purity of Antibody



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Placenta stained with PD-ECGF Recombinant Mouse Monoclonal Antibody (rTYMP/3444).

ADDITIONAL INFORMATION

References	Fox SB, et. al. Journal of Pathology, 1995, 176:183-90. OBrien TS, et. al. Cancer Research, 1996, 56(20):4799-804. Fox SB, et. al. British Journal of Cancer, 1996, 73:275-80
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NCBI AND UNIPROT INFORMATION

NCBI GI #	166158925
NCBI GeneID	1890
NCBI Accession #	NP_001107228.1
NCBI GenBank Nucleotide #	NP_001107228.1
UniProt Accession #	P19971
Molecular Weight	55kDa
NCBI Official Full Name	thymidine phosphorylase isoform 1
NCBI Official Synonym Full Names	thymidine phosphorylase
NCBI Official Symbol	TYMP
NCBI Official Synonym Symbols	TP; ECGF; ECGF1; MNGIE; MEDPS1; MTDPS1; PDECGF; hPD-ECGF
NCBI Protein Information	thymidine phosphorylase
UniProt Protein Name	Thymidine phosphorylase

UniProt Gene Name	TYMP
UniProt Synonym Gene Names	ECGF1; TP; PD-ECGF
UniProt Entry Name	TYPH_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/thymidine-phosphorylase-pd-ecgf-antibody-clone-rtyp-3444-immunohistochemistry-elisa/215422>