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

Thymidine Phosphorylase/PD-ECGF (Angiogenesis Marker)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62957	**Mouse**	**Human, Mouse, Rat. Others not known.**	**Immunohistochemistry, Immunoprecipitation, Western Blot**

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. Others not known.
Clonality	Monoclonal
Isotype	IgG1
Clone Number	SPM322
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.
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), IP (Immunoprecipitation), WB (Western Blot)
Immunogen	Recombinant full-length human Thymidine Phosphorylase (TP / PD-ECGF) protein
Cellular Localization	Cytoplasmic and Nuclear
Hu-chromosome Location	22q13.33
Positive Control	HUVEC cells. Breast, Bladder, Lung or Kaposi tumors
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



IHC (Immunohiostchemistry)
Formalin-fixed, paraffin-embedded human Parathyroid stained with Chromogranin A Monoclonal Antibody (CGA/413



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Placenta stained with Thymidine Phosphorylase / PD-ECGF Monoclonal Antibody (SPM322).

ADDITIONAL INFORMATION

References	Fox SB, et. al. Journal of Pathology, 1995, 176:183-90. O'Brien TS, et. al. Cancer Research, 1996, 56(20):4799-804. Fox SB, et. al. British Journal of Cancer, 1996, 73:275-80

NCBI AND UNIPROT INFORMATION

NCBI GI #	166158922
NCBI GeneID	1890
NCBI Accession #	NP_001107227.1
NCBI GenBank Nucleotide #	NM_001113755.2
UniProt Accession #	P19971; Q13390; Q8WVB7; A8MW15; H9KVA0
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

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/monoclonal/thymidine-phosphorylase-pd-ecgf-antibody-clone-spm322-immunohistochemistry-immunoprecipitation-western-blot-elisa/62957