

Anti-Thymidine Phosphorylase / PD-ECGF (Angiogenesis Marker) Monoclonal Antibody

Catalog Number: M06329

About TYMP

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.

Overview

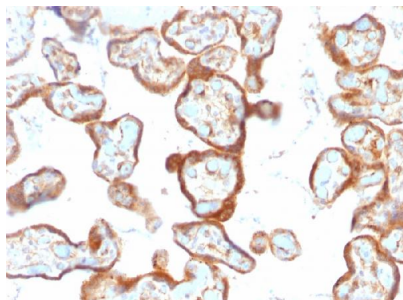
Product Name	Anti-Thymidine Phosphorylase / PD-ECGF (Angiogenesis Marker) Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Thymidine Phosphorylase / PD-ECGF (Angiogenesis Marker) Monoclonal Antibody (Catalog # M06329). Tested in WB, IP, IHC applications. This antibody reacts with Human, Mouse, Rat.
Conjugate	Biotin
Application	IP, IHC, WB
Clonality	Monoclonal Clone: SPM322
Formulation	Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage Instructions	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. No MSDS required.
Host	Mouse
Uniprot ID	P19971

Technical Details

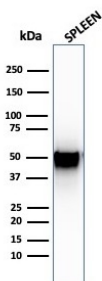
Immunogen	Recombinant full-length human Thymidine Phosphorylase (TP / PD-ECGF) protein
Predicted Reactive Species	Pig, Rabbit
Cross Reactivity	Does not cross-react with primate, avian or amphibian GR.

Isotype	IgG1, kappa
Form	Liquid
Concentration	Purified antibody with BSA and azide at 200ug/ml
Purification	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western Blot (1-2ug/ml)</p> <p>Immunoprecipitation (0.5-1ug/500ug protein lysate)</p> <p>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)</p> <p>Optimal dilution for a specific application should be determined.</p>

Anti-Thymidine Phosphorylase / PD-ECGF (Angiogenesis Marker) Monoclonal Antibody (M06329) Images



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



Western Blot analysis of human spleen tissue lysate using Anti-Thymidine Phosphorylase / PD-ECGF Monoclonal Antibody (SPM322).

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