

Thymidine Phosphorylase / PD-ECGF (Angiogenesis Marker) Antibody

Mouse Monoclonal Antibody [Clone SPM322]

Catalog No	Format	Size
1890-MSM1X-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
1890-MSM1X-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
1890-MSM1X-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

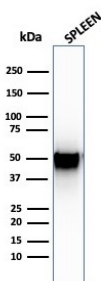
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

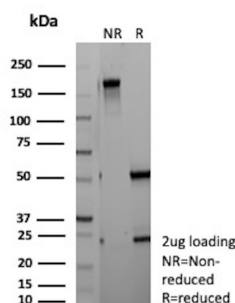
Clone	SPM322
Gene Name	TYMP
Immunogen	Recombinant full-length human Thymidine Phosphorylase (TP / PD-ECGF) protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	55kDa
Species Reactivity	Human, Mouse, Rat
Positive Control	Bladder, HUVEC cells. Breast, Lung or Kaposi tumors., Spleen

**Optimal dilution for a specific application should be determined.*

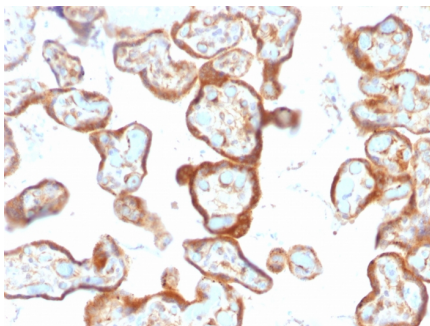
Product Images for Thymidine Phosphorylase / PD-ECGF (Angiogenesis Marker) Antibody



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



SDS-PAGE Analysis of Purified Thymidine Phosphorylase Mouse Monoclonal Antibody (SPM322). Confirmation of Purity and Integrity of Antibody.



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

Specificity & Comments

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.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

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.

Storage and Stability

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.

Research Areas

AKT Signaling, Angiogenesis, Apoptosis, Autophagy, Basal Cell Marker, Bladder Cancer, Cardiovascular, Nuclear Marker