

Recombinant Thymidine Phosphorylase / PD-ECGF (Angiogenesis Marker) Antibody

Mouse Monoclonal Antibody [Clone rTYMP/3444]

| Catalog No | Format | Size |
|-----------------|---|--------|
| 1890-MSM3-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 1890-MSM3-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 1890-MSM3-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

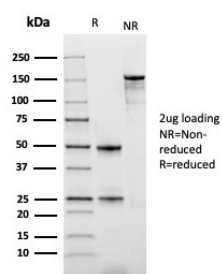
| Applications | Tested Dillution | Note |
|----------------------------|------------------|---|
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT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

Product Details

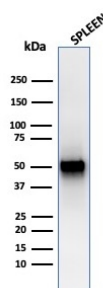
| | |
|-------------------------------|--|
| Clone | rTYMP/3444 |
| Gene Name | TYMP |
| Immunogen | Recombinant full-length human Thymidine Phosphorylase (TP / PD-ECGF) protein |
| Host | Mouse |
| Clonality | Monoclonal |
| Isotype / Light Chain | IgG1 / Kappa |
| Mol. Weight of Antigen | 55kDa |
| Species Reactivity | Human, Mouse, Rat |
| Positive Control | Bladder, Breast, Lung or Kaposi tumors (IHC)., Spleen, Liver. |

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

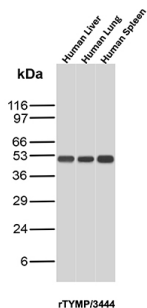
Product Images for Recombinant Thymidine Phosphorylase / PD-ECGF (Angiogenesis Marker) Antibody



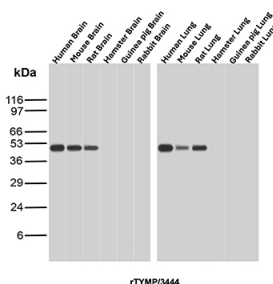
SDS-PAGE Analysis of Purified PD-ECGF Recombinant Mouse Monoclonal Antibody (rTYMP/3444). Confirmation of Integrity and Purity of Antibody



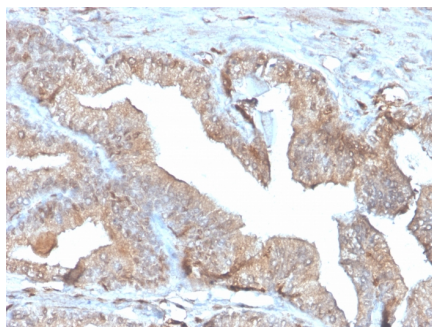
Western Blot Analysis of human spleen tissue lysate using PD-ECGF Recombinant Mouse Monoclonal Antibody (rTYMP/3444).



Western Blot Analysis of Human Liver, Human Lung and Human Spleen tissue lysates using Thymidine Phosphorylase / PD-ECGF Recombinant Mouse Monoclonal Antibody (rTYMP/3444).



Western Blot Analysis of Brain and Lung tissue lysates of different species using Thymidine Phosphorylase / PD-ECGF Recombinant Mouse Monoclonal Antibody (rTYMP/3444).



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

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

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