

Datasheet for ABIN6939276

anti-Thymidine Phosphorylase antibody

3 Images

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Overview

Quantity:	100 µg
Target:	Thymidine Phosphorylase (TYMP)
Reactivity:	Human, Rat, Mouse
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Staining Methods (StM)

Product Details

Immunogen:	Recombinant full-length human Thymidine Phosphorylase (TP / PD-ECGF) protein
Clone:	P-GF-44C
Isotype:	IgG1 kappa
Specificity:	Recognizes a protein (amino acid 482) of 55 kDa (in vivo 110 kDa 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

Product Details

such antimetabolites.

Purification: Purified by Protein A/G

Target Details

Target: Thymidine Phosphorylase (TYMP)

Alternative Name: TYMP ([TYMP Products](#))

Molecular Weight: 55kDa

Gene ID: 1890

UniProt: [P19971](#)

Pathways: [Signaling Events mediated by VEGFR1 and VEGFR2](#)

Application Details

Application Notes: Positive Control: HUVEC cells. Breast, Bladder, Lung or Kaposi tumors.
Known Application: Western Blot (0.5-1 µg/mL), Immunoprecipitation (0.5-1 µg/500 µg protein lysate), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

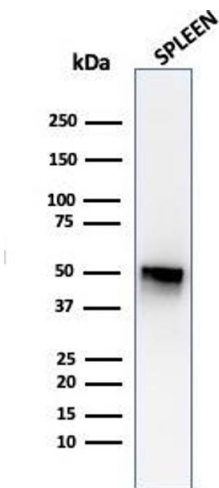
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -80 °C

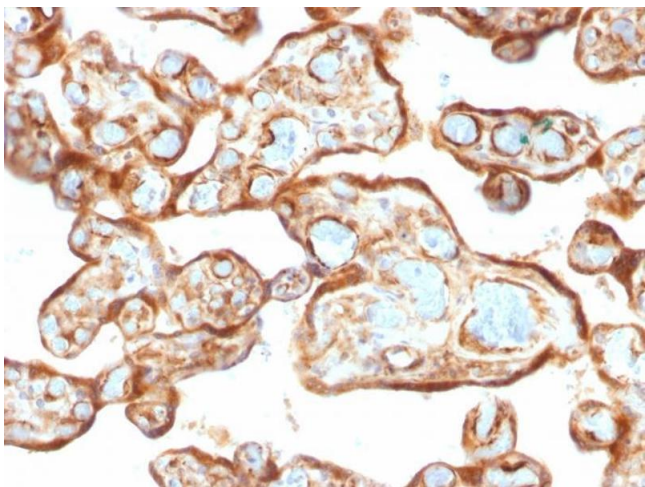
Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months



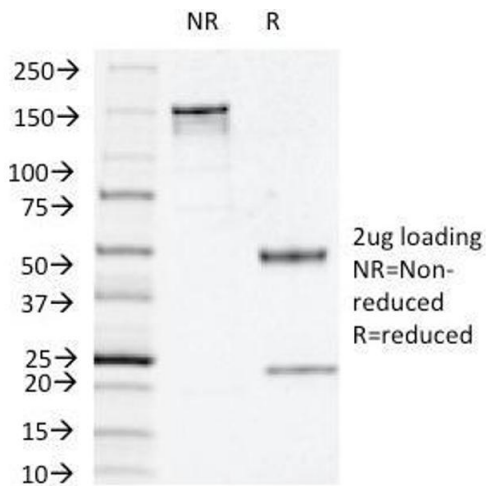
Western Blotting

Image 1. Western Blot Analysis of human spleen tissue lysate using Thymidine Phosphorylase / PD-ECGF Monoclonal Antibody (P-GF.44C).



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human Placenta stained with Thymidine Phosphorylase / PD-ECGF Monoclonal Antibody (P-GF.44C).



SDS-PAGE

Image 3. SDS-PAGE Analysis Purified Thymidine Phosphorylase / PD-ECGF Mouse Monoclonal Antibody (P-GF.44C). Confirmation of Integrity and Purity of Antibody