Datasheet for ABIN6939278

Recombinant anti-Thymidine Phosphorylase antibody

3 Images

Go to Product page

Overview

Quantity:	100 µg
Target:	Thymidine Phosphorylase (TYMP)
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This Thymidine Phosphorylase antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Staining Methods (StM)

Product Details

Immunogen:	Recombinant full-length human Thymidine Phosphorylase (TP / PD-ECGF) protein
Clone:	TYMP-2890R
Isotype:	IgG
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-phos phate. 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

Product Details

	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.
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: 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

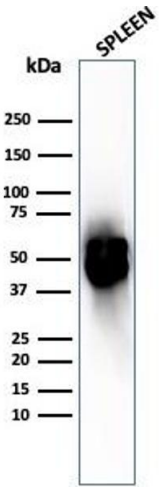
Handling

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.

Handling

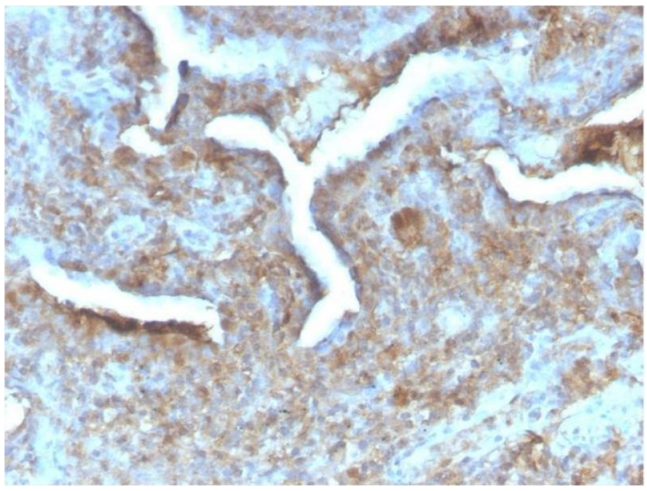
Expiry Date:	24 months

Images



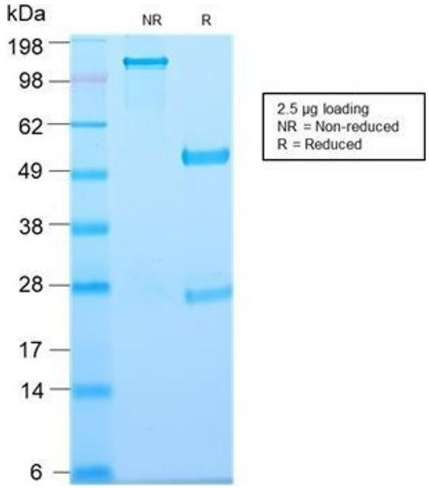
Western Blotting

Image 1. Western Blot Analysis of human spleen tissue lysate using Thymidine Phosphorylase Rabbit Recombinant Monoclonal (TYMP/2890R).



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with Thymidine Phosphorylase Rabbit Recombinant Monoclonal (TYMP/2890R).



SDS-PAGE

Image 3. SDS-PAGE Analysis of Purified Thymidine Phosphorylase Rabbit Recombinant Monoclonal (TYMP/2890R). Confirmation of Purity and Integrity of Antibody.