


Product datasheet

Anti-Thymidine Phosphorylase antibody [rTYMP/3444] ab270728

Recombinant

[3 Images](#)

Overview

Product name	Anti-Thymidine Phosphorylase antibody [rTYMP/3444]
Description	Mouse monoclonal [rTYMP/3444] to Thymidine Phosphorylase
Host species	Mouse
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Recombinant full length protein corresponding to Human Thymidine Phosphorylase. Database link: P19971
Positive control	IHC-P: Human placenta tissue. WB: Human spleen lysate.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.05% Sodium azide Constituents: PBS, 0.05% BSA
Purity	Protein A/G purified
Purification notes	Purified from Bioreactor Concentrate.
Clonality	Monoclonal
Clone number	rTYMP/3444
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab270728 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration.
IHC-P		Use a concentration of 1 - 2 µg/ml. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target

Function

May have a role in maintaining the integrity of the blood vessels. Has growth promoting activity on endothelial cells, angiogenic activity in vivo and chemotactic activity on endothelial cells in vitro. Catalyzes the reversible phosphorolysis of thymidine. The produced molecules are then utilized as carbon and energy sources or in the rescue of pyrimidine bases for nucleotide synthesis.

Pathway

Pyrimidine metabolism; dTMP biosynthesis via salvage pathway; dTMP from thymine: step 1/2.

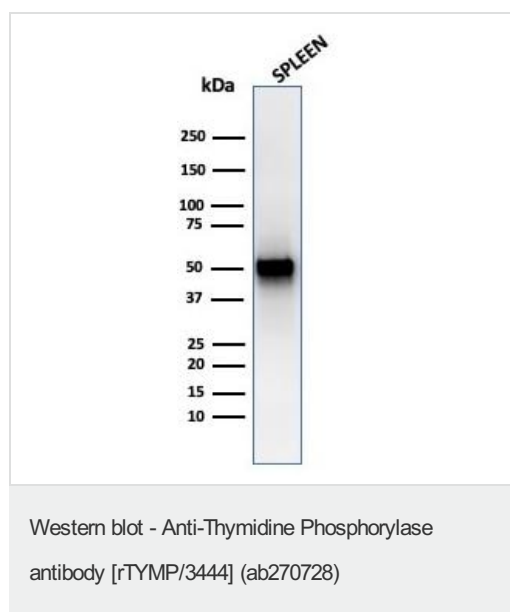
Involvement in disease

Mitochondrial DNA depletion syndrome 1 (MTDPS1) [MIM:603041]: A multisystem disease associated with mitochondrial dysfunction. It is clinically characterized by onset between the second and fifth decades of life, ptosis, progressive external ophthalmoplegia, gastrointestinal dysmotility (often pseudoobstruction), diffuse leukoencephalopathy, cachexia, peripheral neuropathy, and myopathy. Note=The disease is caused by mutations affecting the gene represented in this entry.

Sequence similarities

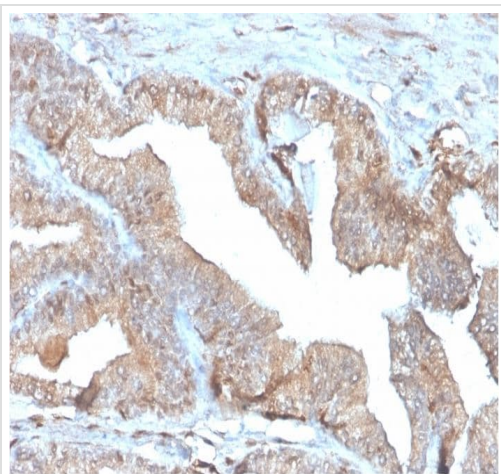
Belongs to the thymidine/pyrimidine-nucleoside phosphorylase family.

Images



Anti-Thymidine Phosphorylase antibody [rTYMP/3444] (ab270728)

+ Human spleen lysate



Formalin-fixed, paraffin-embedded human placenta tissue stained for thymidine phosphorylase using ab270728 at 2 µg/ml in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thymidine Phosphorylase antibody [rTYMP/3444] (ab270728)

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Thymidine Phosphorylase antibody
[rTYMP/3444] (ab270728)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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