


Product datasheet

Anti-Thymidine Phosphorylase antibody - N-terminal ab180783

★★★★☆ 1 Abreviews 6 Images

Overview

Product name	Anti-Thymidine Phosphorylase antibody - N-terminal
Description	Rabbit polyclonal to Thymidine Phosphorylase - N-terminal
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Recombinant full length protein corresponding to Human Thymidine Phosphorylase aa 1-482 (N terminal). Database link: P19971
Positive control	A549 and THP1 cell lysates.
General notes	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.</p>


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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 49% PBS, 50% Glycerol
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab180783** in the following tested applications.

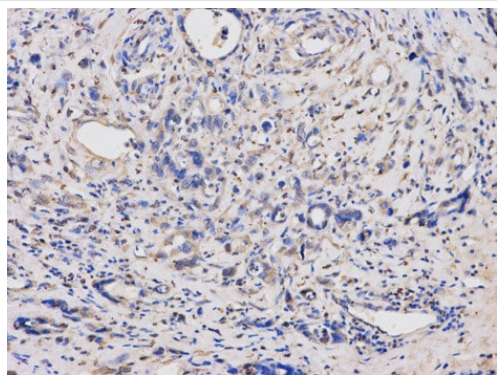
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/2000. Predicted molecular weight: 50 kDa.
IHC-P		1/50 - 1/200.
ICC/IF		Use at an assay dependent concentration.

Target

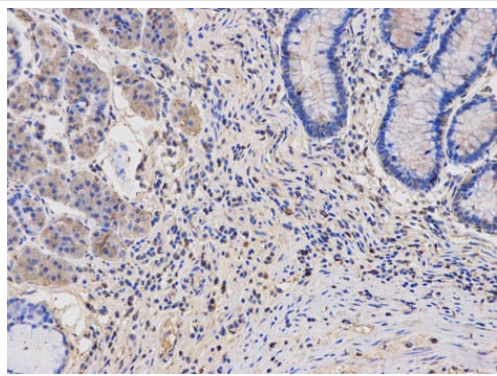
Function	May have a role in maintaining the integrity of the blood vessels. Has growth promoting activity on endothelial cells, angiogenic activity in vivo and chemotactic activity on endothelial cells in vitro. Catalyzes the reversible phosphorolysis of thymidine. The produced molecules are then utilized 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



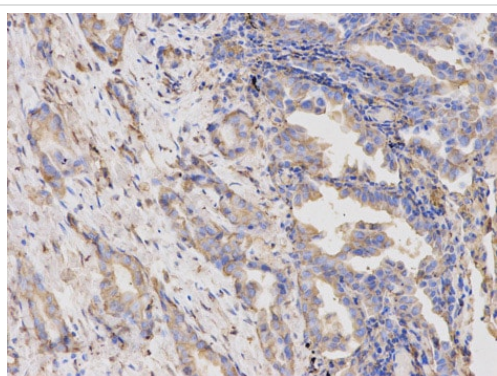
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thymidine Phosphorylase antibody - N-terminal (ab180783)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human stomach cancer tissue labelling Thymidine Phosphorylase with ab180783 at 1/100. Magnification: 200x.



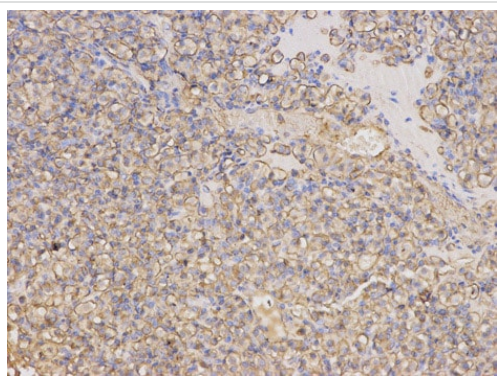
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thymidine Phosphorylase antibody - N-terminal (ab180783)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human stomach tissue labelling Thymidine Phosphorylase with ab180783 at 1/100. Magnification: 200x.



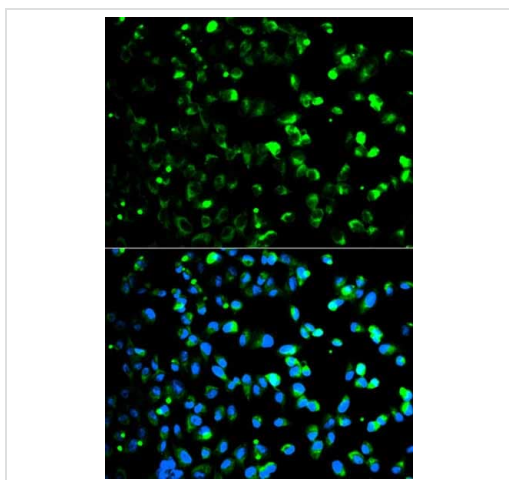
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thymidine Phosphorylase antibody - N-terminal (ab180783)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human lung cancer tissue labelling Thymidine Phosphorylase with ab180783 at 1/100. Magnification: 200x.



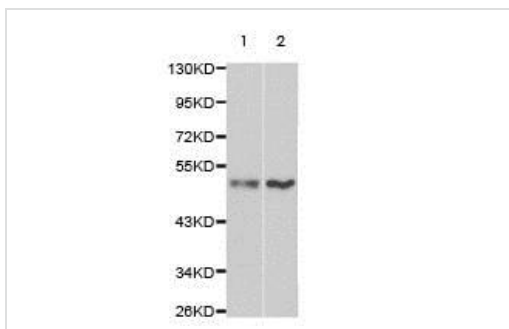
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thymidine Phosphorylase antibody - N-terminal (ab180783)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human kidney cancer tissue labelling Thymidine Phosphorylase with ab180783 at 1/100. Magnification: 200x.



Immunocytochemistry/ Immunofluorescence - Anti-Thymidine Phosphorylase antibody - N-terminal (ab180783)

Immunocytochemistry/Immunofluorescence analysis of HeLa cells using ab180783. Blue DAPI for nuclear staining.



Western blot - Anti-Thymidine Phosphorylase antibody - N-terminal (ab180783)

All lanes : Anti-Thymidine Phosphorylase antibody - N-terminal (ab180783) at 1/500 dilution

Lane 1 : A549 cell lysate

Lane 2 : THP1 cell lysate

Predicted band size: 50 kDa

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

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