

Anti-Thymidylate Synthase antibody [SP112] ab111153

Recombinant RabMAb

4 Images

Overview

Product name	Anti-Thymidylate Synthase antibody [SP112]
Description	Rabbit monoclonal [SP112] to Thymidylate Synthase
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Colon carcinoma and tonsil tissue, human hepatocellular carcinoma. Flow Cyt (intra): HeLa cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>This product is FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com.</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. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.2</p> <p>Preservative: 0.1% Sodium azide</p> <p>Constituents: PBS, 1% BSA</p>
Purity	Protein A/G purified
Clonality	Monoclonal
Clone number	SP112
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab111153 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
Flow Cyt (Intra)		1/200.
IHC-P		1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function

Contributes to the de novo mitochondrial thymidylate biosynthesis pathway.

Pathway

Pyrimidine metabolism; dTTP biosynthesis.

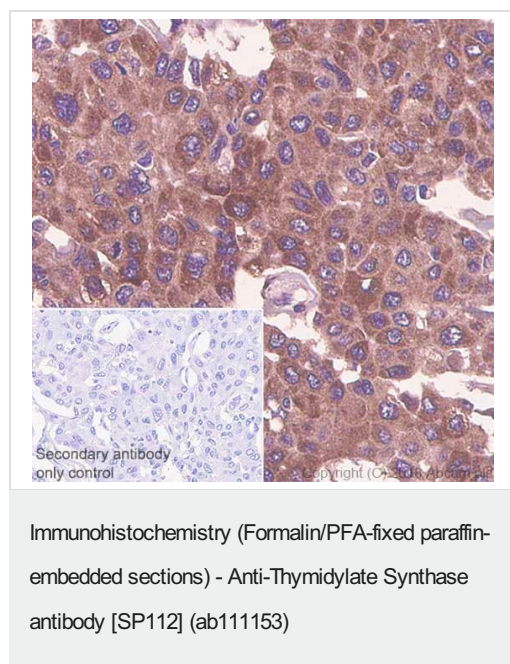
Sequence similarities

Belongs to the thymidylate synthase family.

Cellular localization

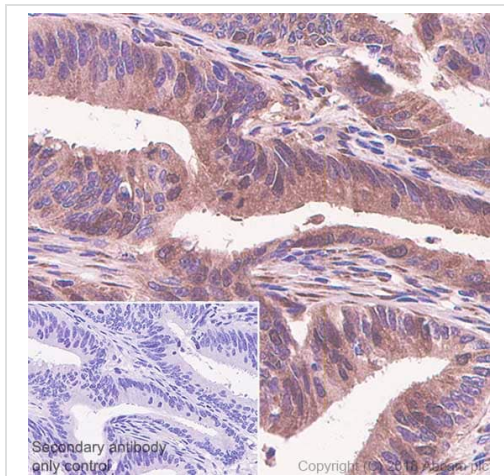
Nucleus. Cytoplasm. Mitochondrion. Mitochondrion matrix. Mitochondrion inner membrane.

Images



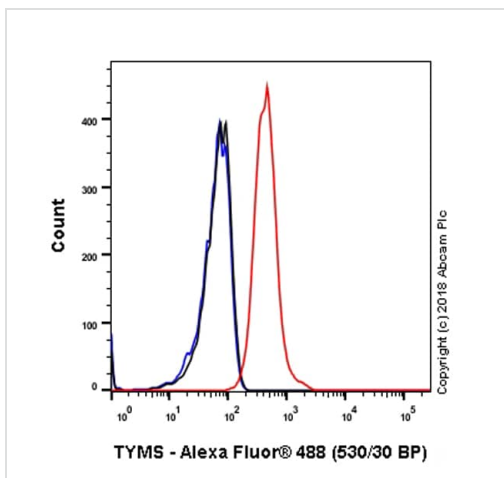
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human hepatocellular carcinoma tissue sections labeling Thymidylate Synthase with ab111153 at 1/100 dilution (1.55 µg/ml). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 10mins. Goat Anti-Rabbit & Mouse IgG (HRP) was used as the secondary antibody. Hematoxylin was used as a counterstain. Positive staining on the human hepatocellular carcinoma, performed on a Leica Biosystems BOND™ RX instrument.

The section was incubated with ab111153 for 30 mins at room temperature.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thymidylate Synthase antibody [SP112] (ab111153)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human colon carcinoma tissue sections labeling Thymidylate Synthase with ab111153 at 1/100 dilution (1.55 $\mu\text{g/ml}$). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 10mins. Goat Anti-Rabbit & Mouse IgG (HRP) was used as the secondary antibody. Hematoxylin was used as a counterstain. Positive staining on the human colon carcinoma, with some nuclear staining, performed on a Leica Biosystems BOND™ RX instrument. The section was incubated with ab111153 for 30 mins at room temperature.



Flow Cytometry (Intracellular) - Anti-Thymidylate Synthase antibody [SP112] (ab111153)

Flow cytometry analysis of HeLa (human cervix adenocarcinoma epithelial cell) labeling Thymidylate Synthase with purified ab111153 at 1/200 dilution (0.78 $\mu\text{g/ml}$) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as a secondary antibody. Isotype control - Rabbit monoclonal IgG (**ab172730**) (black). Unlabeled control - Unlabelled cells (blue).

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-Thymidylate Synthase antibody [SP112]
(ab111153)

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

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