

## Thymidylate Synthase Antibody

Catalog No: #P1057

Package Size: #P1057-1 0.1ml #P1057-2 1ml

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

## Description

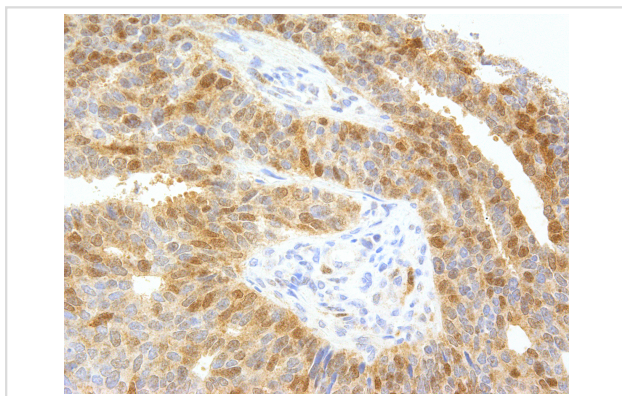
Product Name	Thymidylate Synthase Antibody
Host Species	Mouse
Clonality	Monoclonal
Clone No.	IHC697
Applications	IHC
Species Reactivity	Human
Formulation	Tris Buffer, pH 7.3 - 7.7, with 1% BSA and
Storage	Store at 2-8C. Do not freeze.

## Application Details

Recommended

working dilution range:1:100 - 1:200

## Images



Thymidylate Synthase [P1057] on Cervical Cancer

## Product Description

Thymidylate Synthase (TS) is a crucial enzyme responsible for the synthesis of 2'-deoxythymidine-5'-monophosphate (dTMP) a precursor for thymidylate which is necessary for DNA replication and repair from 2-deoxyuridine-5-monophosphate (dUMP). In terms of cancer, TS is an important target for cancer treatment as the inhibition of TS and therefore nucleotide synthesis necessary for cell growth has shown to be a vital part for successful treatment against colorectal, pancreatic and breast cancers.

## References

- Rose, M. G., Farrell, M. P., & Schmitz, J. C. (2002). Thymidylate synthase: a critical target for cancer chemotherapy. *Clinical colorectal cancer*, 1(4), 220-229.
- Peters, G. J., Backus, H. H. J., Freemantle, S., Van Triest, B., Codacci-Pisanelli, G., Van der Wilt, C. L. & McLeod, H. L. (2002). Induction of thymidylate synthase as a 5-fluorouracil resistance mechanism. *Biochimica et Biophysica Acta (BBA)-Molecular Basis of Disease*, 1587(2-3),

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Note: This product is for in vitro research use only