ARG56121
anti-Thymidylate Synthase antibody [TS106]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [TS106] recognizes Thymidylate Synthase
Tested Reactivity	Hu
Tested Application	IHC-P
Host	Mouse
Clonality	Monoclonal
Clone	TS106
Isotype	IgG1, kappa
Target Name	Thymidylate Synthase
Species	Human
Immunogen	Recombinant Human Thymidylate Synthase protein.
Conjugation	Un-conjugated
Alternate Names	Thymidylate synthase; TMS; TSase; TS; HST422; EC 2.1.1.45

Application Instructions

Application table

Application	Dilution
IHC-P	1 - 2 µg/ml

Application Note

IHC-P: Antigen Retrieval: Boil tissue section in 10 mM Citrate buffer (pH 6.0) for 10-20 min, followed by cooling at RT for 20 min.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

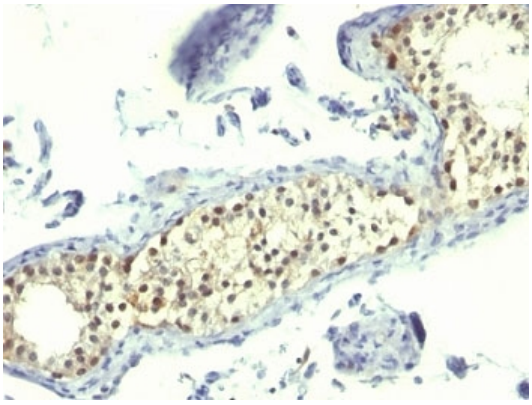
Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.05% Sodium azide and 0.1 mg/ml BSA
Preservative	0.05% Sodium azide
Stabilizer	0.1 mg/ml BSA
Concentration	0.2 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 7298 Human Swiss-port # P04818 Human
Gene Symbol	TYMS
Gene Full Name	thymidylate synthetase
Background	Thymidylate synthase catalyzes the methylation of deoxyuridylate to deoxythymidylate using 5,10-methylenetetrahydrofolate (methylene-THF) as a cofactor. This function maintains the dTMP (thymidine-5-prime monophosphate) pool critical for DNA replication and repair. The enzyme has been of interest as a target for cancer chemotherapeutic agents. It is considered to be the primary site of action for 5-fluorouracil, 5-fluoro-2-prime-deoxyuridine, and some folate analogs. Expression of this gene and that of a naturally occuring antisense transcript rTSalpha (GeneID:55556) vary inversely when cell-growth progresses from late-log to plateau phase. [provided by RefSeq, Jul 2008]
Function	Contributes to the de novo mitochondrial thymidylate biosynthesis pathway. [UniProt]
Calculated Mw	36 kDa
Cellular Localization	Nuclear and Cytoplasmic

Images



ARG56121 anti-Thymidylate Synthase antibody [TS106] IHC-P image

Immunohistochemistry: Formalin-fixed, paraffin-embedded Human testicular carcinoma stained with ARG56121 anti-Thymidylate Synthase antibody [TS106].