

Thymidylate Synthase (Clone ZM175) Mouse Monoclonal Antibody

Specificity: Human. Others-not known

Immunogen: Recombinant human thymidylate synthase protein fragment (around aa 60-174)

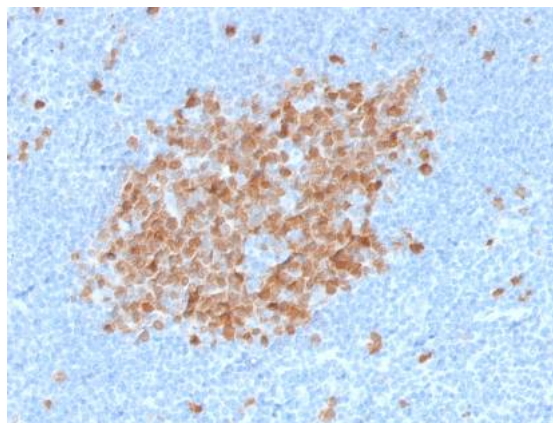
Ig Class: IgG2a/k

Storage: Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

Staining procedures: Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:100-200; *Positive Control:* 5-FU resistance cancer. *Cellular Localization:* Cytoplasmic. *Intended Use:* In vitro diagnosis (IVD).

Discription: It recognizes a protein of 36kDa, identified as Thymidylate Synthase (TS) (EC 2.1.1.45). It converts deoxyuridine monophosphate (dUMP) to deoxythymidine monophosphate (dTMP), which is essential for DNA biosynthesis. TS is also a critical target for the fluoropyrimidines, an important group of antineoplastic drugs that are widely used in the treatment of solid tumors. Both 5-FU and fluorodeoxyuridine are converted in tumor cells to FdUMP which inactivates TS by formation of a ternary covalent complex in the presence of the folate cofactor 5,10-methylenetetrahydrofolate. Expression of TS protein has been reported to associate with response to 5-fluorouracil (5-FU) in human colorectal, gastric, head and neck, and breast carcinomas.

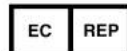
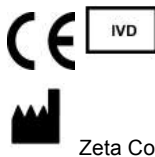
Supplied As: Purified antibody with 0.2% BSA and 15mM sodium azide.



Formalin-fixed, paraffin-embedded human tonsil stained with anti-thymidylate synthase antibody and DAB chromogen. Note the cytoplasmic staining of B cells

Cat. #Z2487 (1.0 ml)

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