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Bhubaneswar, Odisha - 751024, INDIA

## 36-1775: Monoclonal Antibody to Thymidylate Synthase (5-FU Resistance Marker)(TS106 + TMS715)

Clonality: Monoclonal

Clone Name : TS106 + TMS715
Application : FACS,IF,IHC

Reactivity: Human
Gene: TYMS
Gene ID: 7298
Uniprot ID: P04818
Format: Purified

Alternative Name: TYMS,TS,OK/SW-cl.29

**Isotype:** Mouse IgG1, kappa + Mouse IgG1, kappa

Immunogen Information: Recombinant human thymidylate synthase (TS106 & TMS715)

## **Description**

It recognizes a protein of 36kDa, identified as Thymidylate Synthase (TS) (EC 2.1.1.45). TS 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 is associated with response to 5-fluorouracil (5-FU) in human colorectal, gastric, head and neck, and breast carcinomas.

## **Product Info**

**Amount**: 100 μg

**Purification:** Affinity Chromatography

Content: 100 µg in 500 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly

toxic.

Storage condition:

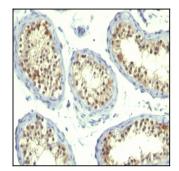
Storage condition:

Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid

repeated freeze and thaw cycles.

## **Application Note**

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);



Formalin-fixed, paraffin-embedded human Testicular Carcinoma stained with Thymidylate Synthase Monoclonal Antibody (TS106 + TMS715).