

Rabbit anti-Thymidylate Synthase

Cat. No. and Size: **520-4124:** 1 ml rabbit monoclonal antibody purified by protein A/G in PBS, pH 7.6 with 1% BSA and less than 0.1% sodium azide.
520-4121: 7 ml pre-diluted rabbit monoclonal antibody purified by protein A/G in TBS, pH 7.6 with 1% BSA and less than 0.1% sodium azide.

Intended Use: For research use only. Not for use in diagnostic procedures.
Clone: SP112
Immunogen: A synthetic peptide near C-terminus of human TS.
Isotype: Rabbit IgG
Epitope: Not determined
Molecular Weight: 36 kDa
Species Reactivity: Human (tested). Others not tested.

Description: Thymidylate Synthase (TS) (EC 2.1.1.45) converts deoxyuridine monophosphate (dUMP) to deoxythymidine monophosphate (dTMP), which is essential for DNA biosynthesis. TS is a critical target for the fluoropyrimidines, an important group of anti-neoplastic 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. Overexpression of TS has been demonstrated in many types of tumors including breast, colon, gastric and melanoma.

Applications Immunohistochemistry (IHC) on formalin-fixed, paraffin-embedded tissue sections.

IHC Procedure **Antibody Dilution:** If using the concentrate format of this product, dilute the antibody 1:100.
 The dilutions are estimates; actual results may differ because of variability in methods and protocols.
Antigen Retrieval: Boil tissue section in EDTA buffer for 10 min followed by cooling at RT for 20 min.
Primary Antibody Incubation: 10 minutes at RT.

Positive Control: Colon carcinoma and tonsil
Cellular localization: Nucleus and cytoplasm

Storage and Stability

Store at 2-8°C. Do not freeze. The user must validate any other storage conditions. Every antibody is expiration dated. When properly stored, the reagent is stable to the date indicated on the label. Do not use the reagent beyond the expiration date.

There are no definitive signs to indicate instability of this product; therefore, positive and negative controls should be tested simultaneously with unknown specimens.

May 26, 2011

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Doc: 520-4124_4121

Explanation of the symbols on the product label:

REF	Bestellnummer Catalog Number Reference du catalogue		Verwendbar bis Use By Utiliser jusque		Gebrauchsanweisung beachten Consult Instructions for use Consulter les instructions d'utilisation
LOT	Chargenbezeichnung Batch Code Code du lot		Lagerungstemperatur Temperature Limitation Limites de température	RUO	Nur für Forschungszwecke For Research Use Only Pour la recherche uniquement
IVD	In vitro Diagnostikum In Vitro Diagnostic Medical Device Dispositif médical de diagnostic in vitro		Achtung Warning Attention		Hersteller / Manufacturer / Fabricant Zytomed Systems GmbH • Anhalterstraße 16 14163 Berlin, Germany • Tel: (+49) 30-804 984 990 www.zytomed-systems.de