Product datasheet

anti-TKTL1 (Transketolase-like 1) mouse monoclonal, VU-7H2-G5-C1, lyophilized, purified

Short overview

Cat. No.	610175
Quantity	50 µg
Concentration	50 µg/ml after reconstitution with 1 ml dist. water

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG2a kappa
Clone	VU-7H2-G5-C1
Immunogen	HPLC purified peptide from TKTL1
Formulation	Lyophilized; reconstitute in 1 ml dist. water (final solution contains 0.09% sodium azide, 0.5% BSA in PBS buffer, pH 7.4)
UniprotID	P29401 (Human)
Synomym	Transketolase, TK, EC 2.2.1.1, TKT
Conjugate	Unconjugated
Purification	Affinity chromatography
Storage before reconstitution	2-8°C until indicated expiry date
Storage after reconstitution	Up to 3 months at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles
Intended use	Research use only
Application	IHC, WB
Reactivity	Human

Applications

Immunohistochemistry (IHC) - paraffin	1:50 (perform heat-induced epitope retrieval by heating the paraffin sections at 95 °C for 30 min in 10 mM citrate buffer (pH 6.0)
Western Blot (WB)	1:200

Background

Expression studies on transketolase-like-1 show that the protein is found in aggressive tumors. The detection of TKTL1 is furthermore correlated with poor patient prognosis and metastasis. Transketolase dependent reactions regulate the non-oxidative part of the pentose-phosphate-pathway (PPP) in glucose metabolism. This pathway generates NADPH and pentose phosphates. The latter are important for nucleic acid metabolism. Beside the ubiquitous transketolase (TKT) other transketolase-like proteins exist. Transketolase-like 1 (TKTL1) is a protein with a 38 amino acid deletion when compared to TKT. TKTL1 expression has been shown in tumors of different entities. Inhibition of

TKTL1 expression by RNA interference results in reduced growth of tumor cells, while overexpression of TKTL1 promotes cell proliferation. Recent publications suggest an important role of TKTL1 in the metabolism of tumor cells. In colorectal tumors nuclear as well as cytoplasmic localization has been described.

Reactivity on cultured cell lines: THP-1.

Product images

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