Rabbit Polyclonal antibody to Human TKTL1.

**CPBT-48101RH**    Rabbit(TKTL1)
Lot. No. (See product label)

**PRODUCT INFORMATION**

**Product Overview**    Rabbit Polyclonal antibody to Human TKTL1.

**Antigen Description**    The protein encoded by this gene is a transketolase that acts as a homodimer and catalyzes the conversion of sedoheptulose 7-phosphate and D-glyceraldehyde 3-phosphate to D-ribose 5-phosphate and D-xylulose 5-phosphate. This reaction links the pentose phosphate pathway with the glycolytic pathway. Variations in this gene may be the cause of Wernicke-Korsakoff syndrome. Three transcript variants encoding different isoforms have been found for this gene.

**specificity**    Expressed in fetal and adult heart, brain, lung, liver, and kidney, and in adult placenta, skeletal muscle and pancreas. Up-regulated in various epithelial tumors.

**Target**    TKTL1

**Immunogen**    Synthetic peptide corresponding to a region within internal sequence amino acids 252-301 (IQTSRNLDPQPPIEDSPEVINITDVRMTSPPDYRVGDKIATARKACGLALAK) of human TKTL1.

**Host**    Rabbit

**Isotype**    IgG

**species**    Human

**Purification**    Immunogen affinity purified

**Applications**    IHC-P, WB

**Sequence similarities**    Belongs to the transketolase family.

**Cellular localization**    Cytoplasm. Nucleus. Predominantly cytoplasmic and to a lesser extent also nuclear.

**PACKAGING**

**Format**    Liquid

**Buffer**    Preservative: None Constituents: 2% Sucrose, PBS

**Storage**    Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.

**ANTIGEN GENE INFORMATION**

**Gene Name**    TKTL1 transketolase-like 1 [ Homo sapiens ]

**Official Symbol**    TKTL1

**Synonyms**    TKTL1; transketolase-like 1; transketolase-like protein 1; TKR; TKT2; TK 2; TK2; TKR; TKT 2; TKT2; TKTL1; TKTL1_HUMAN; Transketolase 2; Transketolase like 1; Transketolase like protein 1; Transketolase related protein; Transketolase-like protein 1; Transketolase-related protein; Transketolase2; TK 2; transketolase-2; transketolase-related protein;

**GeneID**    8277

**mRNA Refseq**    NM_001145934

**Protein Refseq**    NP_001139406
MIM 300044
UniProt ID P51854
Chromosome Location Xq28

Pathway  Metabolic pathways, organism-specific biosystem; Pentose phosphate pathway, organism-specific biosystem; Pentose phosphate pathway, conserved biosystem; Pentose phosphate pathway (Pentose phosphate cycle), organism-specific biosystem; Pentose phosphate pathway (Pentose phosphate cycle), conserved biosystem; Pentose phosphate pathway, non-oxidative phase, fructose 6P => ribose 5P, organism-specific biosystem;

Function catalytic activity; metal ion binding; transferase activity; transketolase activity;

REFERENCES