



Anti-TKTL1 (aa 252-301) polyclonal antibody (CPBT-48101RH)

This product is for research use only and is not intended for diagnostic use.

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.
Immunogen	Synthetic peptide corresponding to a region within internal sequence amino acids 252-301 (IQTSRNLDLPQ PPIEDSPEVN ITDVRMTSPP DYRVGDKIAT RKACGLALAK) of human TKTL1.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Immunogen affinity purified
Conjugate	Unconjugated
Applications	IHC-P, WB
Sequence Similarities	Belongs to the transketolase family.
Cellular Localization	Cytoplasm. Nucleus. Predominantly cytoplasmic and to a lesser extent also nuclear.
Format	Liquid

Size	50 µg
Buffer	Preservative: None Constituents: 2% Sucrose, PBS
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.

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;
Entrez Gene ID	8277
Protein Refseq	NP_001139406
UniProt ID	B7Z7I0
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; Pentose phosphate pathway, non-oxidative phase, fructose 6P => ribose 5P, conserve
Function	catalytic activity; metal ion binding; transferase activity; transketolase activity;