

Rabbit anti-Human TKT Polyclonal Antibody | anti-TKT antibody

Anti-TKT Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254978	Rabbit	Human	Immunofluorescence, Immunocytochemistry, Western Blot

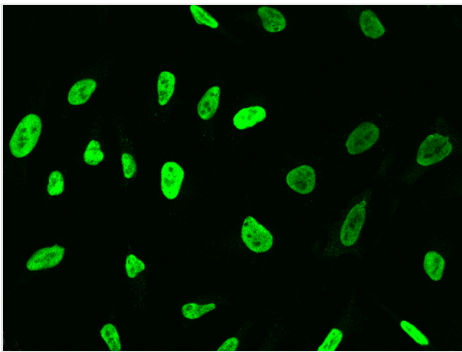
PRODUCT SYNONYMS

TKT; Polyclonal Antibody; Anti-TKT Antibody; Rabbit Polyclonal; TKT Antibody; Rabbit PAb; Antigen Affinity Purified; transketolase; Anti-HEL-S-48 Antibody; Anti-HEL107 Antibody; Anti-TK Antibody; Anti-TKT1 Antibody; anti-TKT antibody

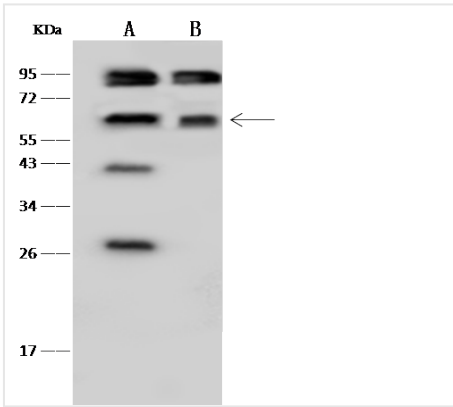
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human TKT
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-TKT antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the N-terminus of the Human TKT
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the N-terminus of the Human TKT, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)
Immunofluorescence staining of TKT in HeLa cells. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human TKT polyclonal antibody (dilution ratio 1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to nucleus.



WB (Western Blot)
Anti-TKT rabbit polyclonal antibody at 1:500 dilution
Lane A: HepG2 Whole Cell Lysate
Lane B: HeLa Whole Cell Lysate
Lysates/proteins at 30 ug per lane.
Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution.
Developed using the ECL technique.
Performed under reducing conditions.
Predicted band size: 68 kDa
Observed band size: 68 kDa
(We are unsure as to the identity of these extra bands.)

ADDITIONAL INFORMATION

Related Product Information for anti-TKT antibody	Transketolase (TKT) is a thiamine pyrophosphate (vitamin B1)-dependent enzyme that links the pentose phosphate pathway with the glycolytic pathway by feeding excess sugar phosphates into the main carbohydrate metabolic pathways to generate biosynthetic reducing capacity in the form of NADPH as a substrate for ROS generation. TKT is a key enzyme of the pentose phosphate pathway (PPP), the Calvin cycle, and the ribulose monophosphate (RuMP) cycle. B. methanolicus MGA3 harbors two genes putatively coding for TKTs; one located on the chromosome (tkt(C)) and one located on the natural occurring plasmid pBM19 (tkt(P)). The metabolic enzyme TKT in the nonoxidative branch of the PPP regulates ribose 5-phosphate (R5P) levels and de novo nucleotide biosynthesis. TKT is required for maintaining cell proliferation in human liver cancer cell lines.
References	Yang H, et al. (2016) Microrna-497 regulates cisplatin chemosensitivity of cervical cancer by targeting transketolase. Am J Cancer Res 6 (11): 2690-2699. Riyapa D, et al. (2019) Transketolase and vitamin b1 influence on ros-dependent neutrophil extracellular traps (nets) formation. PLoS One 14 (8): e0221016. Markert B, et al. (2014) Characterization of two transketolases encoded on the chromosome and the plasmid pbm19 of the facultative ribulose monophosphate cycle methylotroph bacillus methanolicus. BMC Microbiol 14 7. Li M, et al. (2019) Transketolase deficiency protects the liver from DNA damage by increasing levels of ribose 5-phosphate and nucleotides. Cancer Res 79 (14): 3689-3701.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507521
NCBI GeneID	7086
NCBI Accession #	NP_001055.1
NCBI GenBank Nucleotide #	NM_001064.3
UniProt Accession #	P29401; Q8TBA3; Q96HH3; A8K089; B4DE31; E7EPA7
Molecular Weight	68,814 Da
NCBI Official Full Name	transketolase isoform 1
NCBI Official Synonym Full Names	transketolase
NCBI Official Symbol	TKT
NCBI Official Synonym Symbols	TK; TKT1; HEL107
NCBI Protein Information	transketolase; epididymis luminal protein 107

UniProt Protein Name	Transketolase
UniProt Gene Name	TKT
UniProt Synonym Gene Names	TK
UniProt Entry Name	TKT_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/polyclonal/tkt-antibody-immunofluorescence-immunocytochemistry-western-blot-elisa/254978>