

TKTL1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP58409

Specification

TKTL1 Polyclonal Antibody - Product Information

Application WB, IHC-P, IHC-F, IF, E

Primary Accession P51854

Reactivity
Host
Clonality
Rat, Pig, Dog, Bovine
Rabbit
Polyclonal

Clonality Polyclo
Calculated MW 65 KDa
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived

from human TKTL1

Epitope Specificity 101-200/596

Isotype IgG

affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Cytoplasm. Nucleus. Note=Predominantly

cytoplasmic and to a lesser extent also

nuclear.

SIMILARITY Belongs to the transketolase family.

SUBUNIT Homodimer

Important Note This product as supplied is intended for

research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

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.

TKTL1 Polyclonal Antibody - Additional Information

Gene ID 8277

Other Names

Transketolase-like protein 1, 2.2.1.1, Transketolase 2, TK 2, Transketolase-related protein, TKTL1, TKR, TKT2

Target/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.



Dilution

- WB~~1:1000<br \><span class
 ="dilution_IHC-P">IHC-P~~N/A<br \><span class
 ="dilution_IHC-F">IHC-F~~N/A<br \><span class
 ="dilution_IF">IF~~1:50~200<br \>E~~N/A
- Storage

Store at -20 $^{\circ}$ C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 $^{\circ}$ C.

TKTL1 Polyclonal Antibody - Protein Information

Name TKTL1

Synonyms TKR, TKT2

Function

Catalyzes the transfer of a two-carbon ketol group from a ketose donor to an aldose acceptor, via a covalent intermediate with the cofactor thiamine pyrophosphate.

Cellular Location

Cytoplasm.

Tissue Location

Widely expressed (PubMed:8838793). Expressed in endothelial cells and in peripheral neurons (at protein level) (PubMed:15991799). [Isoform 4]: Expressed in fetal neocortex.

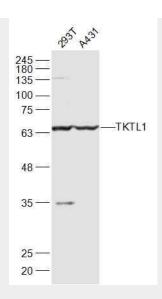
TKTL1 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

TKTL1 Polyclonal Antibody - Images





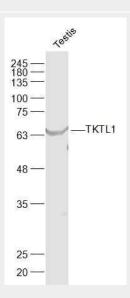
Sample:

293T(Human) Cell Lysate at 30 ug A431(Human) Cell Lysate at 30 ug

Primary: Anti-TKTL1 (bs-6284R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 65 kD Observed band size: 65 kD



Sample:

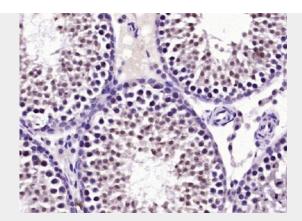
Testis (Mouse) Lysate at 40 ug

Primary: Anti-TKTL1 (bs-6284R) at 1/1000 dilution

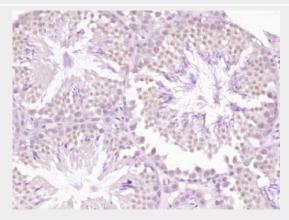
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 65 kD Observed band size: 65 kD





Paraformaldehyde-fixed, paraffin embedded (Rat testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TKTL1) Polyclonal Antibody, Unconjugated (bs-6284R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TKTL1) Polyclonal Antibody, Unconjugated (bs-6284R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.