

## TKT/Transketolase Rabbit Polyclonal Antibody

### Catalog #: EAB14039

Host/Isotype	Clonality	Applications	MW (kDa)	Reactivity
Rabbit IgG	Polyclonal	WB, IHC-P, IF/ICC	68	Human, Mouse, Rat

### Applications Dilutions

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

WB(Western Blotting)	1:500-2000
IHC-P(Immunohistochemistry-Paraffin)	1:50-300
IF/ICC(Immunofluorescence/Immunocytochemistry)	1:50-300

### Product Information

Conjugate	Unconjugate
Specificity	TKT/Transketolase Rabbit Polyclonal Antibody detects endogenous levels of TKT/Transketolase protein.
Purification	Affinity purification
Concentration	1mg/ml
Format	Liquid
Formulation	In PBS, pH 7.4, Containing 0.02% sodium azide, 0.5% BSA and 50% Glycerol.
Shipping	Gel Pack
Storage	Store at -20°C least 1 year from the date of shipment. Avoid repeated freeze/thaw cycles. Aliquots may be stored at +4°C for 1-2 weeks.
UniProt ID	<a href="#">P29401</a>
Entrez-Gene ID	<a href="#">7086</a>

### Product Description

Transketolase (TKT) is a homodimer in the pentose phosphate pathway (PPP) that catalyzes the interketol transfer between ketoses and aldoses. This enzyme, along with transaldolase, connects the nonoxidative branch of the PPP with glycolysis. Several regions of TKT are evolutionarily conserved from gram-negative bacteria to mammals. There is evidence that hypoxic and non-hypoxic induction of HIF1- $\alpha$  increases the expression of TKT. Because cancer cells rely on TKT in altered cell metabolism for nucleic acid synthesis, work has been done to develop inhibitors of TKT as novel cancer treatments.

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