10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TKT antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI12915

Product Information

Application	WB, IHC
Primary Accession	P29401
Other Accession	NM_001064, NP_001055
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Chicken, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	67878

Additional Information

Gene ID	7086
Alias Symbol	FLJ34765, TKT1, TK
Other Names	Transketolase, TK, 2.2.1.1, TKT
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-TKT antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	TKT antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

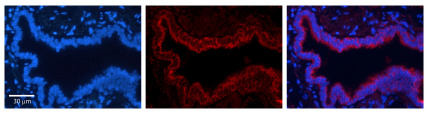
Protein Information

Name	TKT
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 (PubMed:20667822, PubMed:27259054, PubMed:31534226). Thus, catalyzes the reversible transfer of a two- carbon ketol group from sedoheptulose-7-phosphate to glyceraldehyde-3- phosphate, producing xylulose-5-phosphate and ribose-5-phosphate (PubMed:20667822, PubMed:27259054, PubMed:31534226). The phosphate group of the substrate plays a role in stabilizing the substrate- thiamine intermediate while preventing the formation of the reactive enamine intermediate (Ref.28). Can also use fructose-6-phosphate as a ketose donor (Probable).

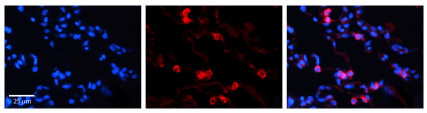
References

Ewing,R.M.,Mol.Syst.Biol.3,89(2007)ReconstitutionandStorage:Forshorttermuse,storeat2-8Cupto1week.Forlongtermstorage,storeat-20Cinsmallaliquotstopreventfreeze-thawcycles.

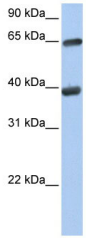
Images



TKT antibody - N-terminal region
Formalin Fixed Paraffin Embedded Tissue: Human Bronchial Epithelial Tissue Observed Staining: Cytoplasm of bronchial epithelial tissue
Primary Antibody
Concentration: 1:100
Secondary Antibody: Donkey anti-Rabbit-Cy3
Secondary Antibody
Concentration: 1:200
Magnification: 20X
Exposure Time: 0.5 - 2.0 sec



TKT antibody - N-terminal region
Formalin Fixed Paraffin Embedded Tissue: Human Lung Tissue Observed Staining: Cytoplasm of pneumocytes
Primary Antibody
Concentration: 1:100
Secondary Antibody: Donkey anti-Rabbit-Cy3
Secondary Antibody
Concentration: 1:200
Magnification: 20X
Exposure Time: 0.5 - 2.0 sec



WB Suggested Anti-TKT Antibody Titration: 0.2-1 µg/ml
Positive Control: 721_B cell lysate
TKT is strongly supported by BioGPS gene expression data to be expressed in Human 721_B cells

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.