

For Research Use Only

# Transketolase Monoclonal antibody

Catalog Number: 66016-1-Ig 2 Publications



## Basic Information

Catalog Number: 66016-1-Ig	GenBank Accession Number: BC009970	Purification Method: Protein A purification
Size: 150ul , Concentration: 2100 ug/ml by Nanodrop and 1007 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 7086	CloneNo.: 3E2F3
Source: Mouse	UNIPROT ID: P29401	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:1000-1:4000 IF/ICC 1:1000-1:4000
Isotype: IgG2b	Full Name: transketolase	
Immunogen Catalog Number: AG16779	Calculated MW: 68 kDa	
	Observed MW: 68 kDa	

## Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Cited Applications: WB	WB : HeLa cells, HepG2 cells, human liver tissue, Jurkat cells, human brain tissue, HEK-293 cells
Species Specificity: human	IHC : human colon cancer tissue, human brain tissue
Cited Species: human	IF/ICC : HepG2 cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Transketolase is a key pentose phosphate shunt enzyme that plays an important role in the production of reducing equivalents and pentose sugars. Decreased activity of transketolase has been found in patients with Alzheimer's disease and thiamine deficiency. In addition, as an important biocatalyst in stereo-specific carbon-carbon bond synthesis, transketolase has been widely used in industry to produce aromatic products.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yimin Sun	36366731	Cancer Med	WB
Ying-Na Liao	38805171	FASEB J	WB

## Storage

Storage:  
Store at -20°C. Stable for one year after shipment.  
Storage Buffer:  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

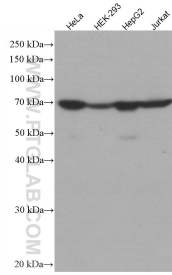
\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

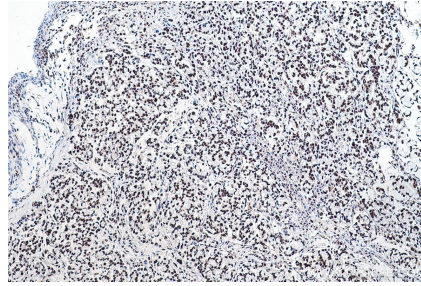
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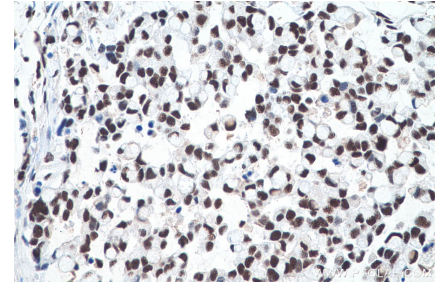
## Selected Validation Data



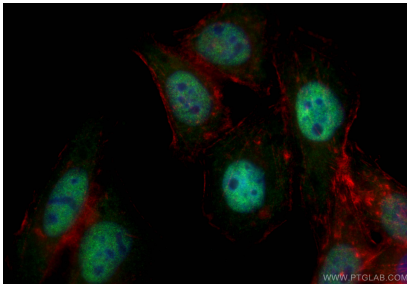
Various lysates were subjected to SDS PAGE followed by western blot with 66016-1-Ig (Transketolase antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 66016-1-Ig (Transketolase antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 66016-1-Ig (Transketolase antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using Transketolase antibody (66016-1-Ig, Clone: 3E2F3) at dilution of 1:2000 and Multi-rAb CoraLite® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002), CL594-phalloidin (red).