

For Research Use Only

# DAK Polyclonal antibody

Catalog Number: 12224-1-AP

Featured Product

4 Publications



## Basic Information

**Catalog Number:**

12224-1-AP

**Size:**

150ul, Concentration: 400 ug/ml by Nanodrop and 300 ug/ml by Bradford method using BSA as the standard;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG2861

**GenBank Accession Number:**

BC001341

**GeneID (NCBI):**

26007

**UNIPROT ID:**

Q3LXA3

**Full Name:**

dihydroxyacetone kinase 2 homolog (S. cerevisiae)

**Calculated MW:**

575 aa, 59 kDa

**Observed MW:**

55-59 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:6000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

**Tested Applications:**

WB, IHC, IP, ELISA

**Cited Applications:**

WB, IF

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB: HeLa cells, HEK-293 cells, mouse uterus tissue, HepG2 cells

IP: HeLa cells,

IHC: human stomach tissue,

## Background Information

DAK, also name as TKFC, Triokinase, and FMN cyclase, catalyzes both the phosphorylation of dihydroxyacetone and of glyceraldehyde, and the splitting of ribonucleoside diphosphate-X compounds among which FAD is the best substrate. DAK has some isoforms with MW 51-55 kDa and 59 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Ziang Zhou	39598328	Pharmaceuticals (Basel)	WB
Maolin Mu	37766977	iScience	WB,IF
Kayla Farrell	37198264	Mol Psychiatry	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

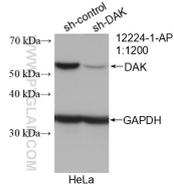
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

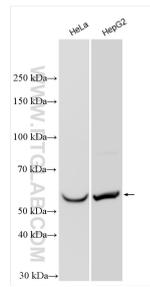
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

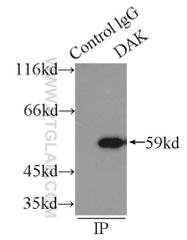
## Selected Validation Data



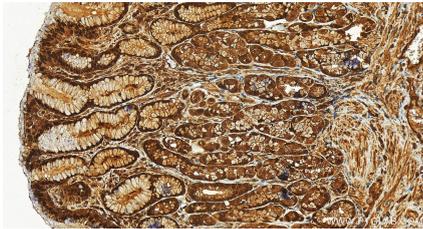
WB result of DAK antibody (12224-1-AP; 1:1200; incubated at room temperature for 1.5 hours) with sh-Control and sh-DAK transfected HeLa cells.



Various lysates were subjected to SDS PAGE followed by western blot with 12224-1-AP (DAK antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



IP result of anti-DAK (IP:12224-1-AP, 3µg; Detection:12224-1-AP 1:500) with HeLa cells lysate 2150µg.



Immunohistochemical analysis of paraffin-embedded human normal stomach slide using 12224-1-AP (DAK antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).