

For Research Use Only

# DYRK2 Polyclonal antibody

Catalog Number: 21979-1-AP



## Basic Information

### Catalog Number:

21979-1-AP

### Size:

150ul, Concentration: 300 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG13480

### GenBank Accession Number:

BC006375

### GeneID (NCBI):

8445

### UNIPROT ID:

Q92630

### Full Name:

dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2

### Calculated MW:

67 kDa

### Observed MW:

67-70 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:3000

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IF/ICC, ELISA

### Species Specificity:

human, mouse, rat

### Positive Controls:

WB : HL-60 cells, K-562 cells, mouse testis tissue, rat testis tissue

IF/ICC : K-562 cells,

## Background Information

DYRK (Dual-specificity tyrosine phosphorylation-regulated kinase 2) is the only member of the Dual-specificity tyrosine phosphorylation-Regulated Kinase (DYRK) family that functions as a kinase activity-independent scaffold for an E3 ubiquitin ligase complex (PMID: 33376136). DYRK2 is involved in cell survival, development, differentiation, gene transcription, proteasomal regulation, and microtubule formation. DYRK2 is a key regulator of cell cycle and apoptosis in response to DNA damage via phosphorylation of p53. DYRK2 has two isoforms and is mostly localized in the cytoplasm; however, it accumulates in the nucleus under genotoxic stress conditions (PMID: 31505048, 37886981).

## 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

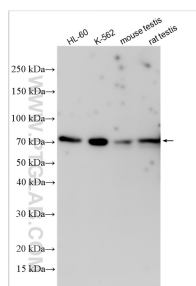
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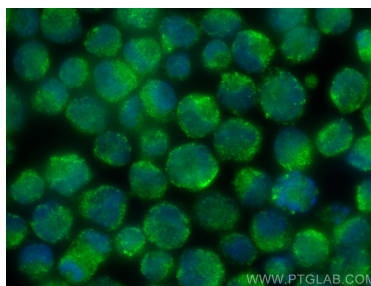
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 21979-1-AP (DYRK2 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed K-562 cells using DYRK2 antibody (21979-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).