

For Research Use Only

# DIRAS2 Recombinant monoclonal antibody

Catalog Number: 86460-1-RR



## Basic Information

Catalog Number:	86460-1-RR	GenBank Accession Number:	BC008065	Purification Method:	Protein A purification
Size:	100ul, Concentration: 1000 µg/ml by Nanodrop;	GenelD (NCBI):	54769	CloneNo.:	251286F3
Source:	Rabbit	UNIPROT ID:	Q96HU8	Recommended Dilutions:	WB: 1:5000-1:50000
Isotype:	IgG	Full Name:	DIRAS family, GTP-binding RAS-like 2		
Immunogen Catalog Number:	AG7926	Calculated MW:	22 kDa		
		Observed MW:	22 kDa		

## Applications

Tested Applications:	WB, ELISA	Positive Controls:	WB: mouse brain tissue, rat brain tissue, fetal human brain tissue, mouse cerebellum tissue, rat cerebellum tissue
Species Specificity:	human, mouse, rat		

## Background Information

GTP-binding protein Di-Ras2 (DIRAS2) is a member of the Ras-related small G-protein family. DIRAS2 regulated the phosphorylation of downstream effector proteins and activated the RAS/mitogen-activated protein kinase (MAPK) signaling pathway (PMID: 3216131). DIRAS2 interacted with 26S proteasome non-ATPase regulatory subunit 2, which facilitates the degradation of DIRAS2 in a proteasome-mediated way. DIRAS2 blocked nuclear factor kappa light-chain enhancer of activated B-cell (NF- $\kappa$ B) signaling pathways, inducing G0/G1 arrest. DIRAS2 inhibited CRC cell proliferation and affected cell-cycle protein expression (PMID: 35173535). DIRAS2 was proved to be an oncogene that activated the RAS-MAPK pathway to induce cell proliferation and metastasis in renal cell cancer (PMID: 3216131). DIRAS2 also shows its activity as a tumor-suppressor gene to induce autophagic cell death via modulating nuclear localization FOXO3/FOXO3A and TFEB (PMID: 29368982).

## Storage

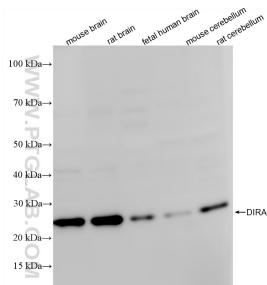
Storage: Store at -20°C. Stable for one year after shipment.  
Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 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



Various lysates were subjected to SDS PAGE followed by western blot with 86460-1-RR (DIRAS2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.