

For Research Use Only

# DIRAS2 Recombinant monoclonal antibody, PBS Only

Catalog Number: 86460-1-PBS



## Basic Information

<b>Catalog Number:</b> 86460-1-PBS	<b>GenBank Accession Number:</b> BC008065	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 54769	<b>CloneNo.:</b> 251286F3
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q96HU8	
<b>Isotype:</b> IgG	<b>Full Name:</b> DIRAS family, GTP-binding RAS-like 2	
<b>Immunogen Catalog Number:</b> AG7926	<b>Calculated MW:</b> 22 kDa	
	<b>Observed MW:</b> 22 kDa	

## Applications

**Tested Applications:**  
WB, Indirect ELISA

**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

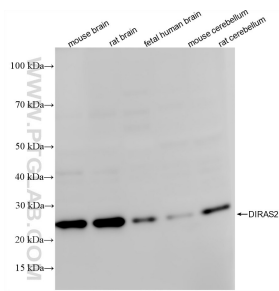
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

For technical support and original validation data for this product please contact:  
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## 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. This data was developed using the same antibody clone with 86460-1-PBS in a different storage buffer formulation.