

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
Concentration: 1000 µg/ml	GeneID (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:
Species Specificity: human, mouse, rat	WB : mouse brain tissue, rat brain tissue, fetal human brain tissue, mouse cerebellum tissue, rat cerebellum tissue

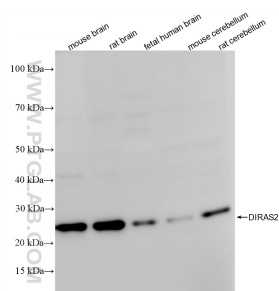
Background Information

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-κB) 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

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.