

For Research Use Only

DIRAS2 Recombinant monoclonal antibody

Catalog Number: 86460-1-RR



Basic Information

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|---------------------------|------------|---------------------------|--------------------------------------|------------------------|------------------------|
| 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

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|----------------------|-------------------|--|
| 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- κ 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

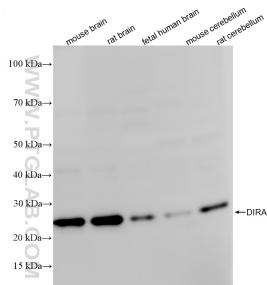
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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.