


Product datasheet

Anti-DIRAS1 antibody ab238491

2 Images

Overview

<b>Product name</b>	Anti-DIRAS1 antibody
<b>Description</b>	Rabbit polyclonal to DIRAS1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse 
<b>Immunogen</b>	Recombinant full length protein corresponding to Human DIRAS1 aa 1-195. Full length mature chain without propeptide. Sequence: MPEQSNDYRVVVFAGGGVGKSSLVLRVFKGTFRDITYPTI EDTYRQVISC DKSVCTLQITD TTGSHQFPAMQRLSISKGHAFILVFSVTSK QSLEELGPI YKLVQIKGSVEDIPVMLVGNKCDDETQREVD TREAQAVAQ EWKCAFMENTS AKMNYNVKELFQELLTLETRRNMSLNIDGKRSGKQKRTDR VKGKC

Database link: [O95057](#)

 [Run BLAST with](#)

 [Run BLAST with](#)

**Positive control** IHC-P: Human brain tissue. ICC/IF: A549 cells.

**General notes**

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work

with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.40 Constituents: PBS, 50% Glycerol (glycerin, glycerine), 0.03% Proclin 300
<b>Purity</b>	Protein G purified
<b>Purification notes</b>	Purity >95%
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab238491** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/200 - 1/500.
ICC/IF		1/50 - 1/200.

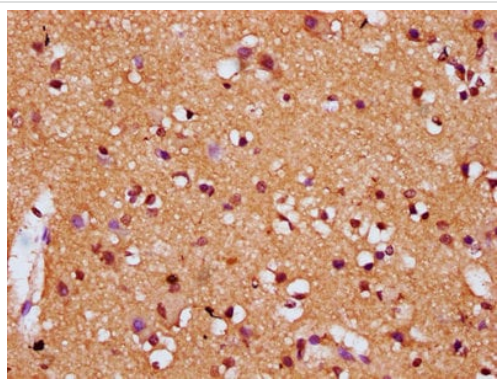
## Target

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<b>Relevance</b>	The three human RAS genes encode highly related 188 to 189 amino acid proteins, designated H-Ras, N-Ras and K-Ras4A and K-Ras4B (the two K-Ras proteins arise from alternative gene splicing). Ras proteins function as binary molecular switches that control intracellular signaling networks. Ras-regulated signal pathways control such processes as actin cytoskeletal integrity, proliferation, differentiation, cell adhesion, apoptosis, and cell migration. Ras and ras-related proteins are often deregulated in cancers, leading to increased invasion and metastasis, and decreased apoptosis. DIRAS1 displays low GTPase activity and exists predominantly in the GTP-bound form. It is highly expressed in heart and brain.
<b>Cellular localization</b>	Cell membrane; Lipid-anchor; Cytoplasmic side

## Images

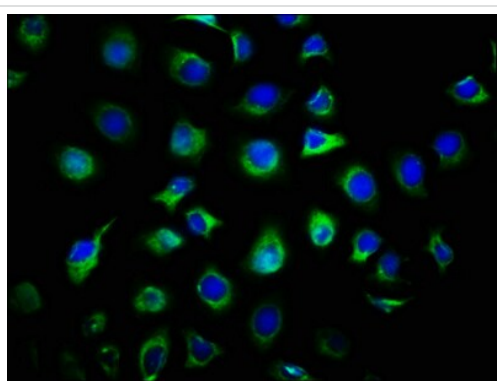
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DIRAS1 antibody (ab238491)

Paraffin-embedded human brain tissue stained for DIRAS1 using ab238491 at 1/200 dilution in immunohistochemical analysis.

After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30 minutes at room temperature. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunocytochemistry/ Immunofluorescence - Anti-DIRAS1 antibody (ab238491)

A549 (Human lung carcinoma cell line) cells stained for DIRAS1 (green) using ab238491 at 1/66 dilution in ICC/IF. Secondary antibody is Alexa Fluor® 488-conjugated Goat Anti-Rabbit IgG (H+L).

The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal goat serum. The cells were then incubated with the antibody overnight at 4°C.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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