

For Research Use Only

# DIRAS1 Polyclonal antibody

Catalog Number: 12634-1-AP

Featured Product

4 Publications



## Basic Information

<b>Catalog Number:</b> 12634-1-AP	<b>GenBank Accession Number:</b> BC030660	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 300 µg/ml by Nanodrop and 207 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 148252	<b>Recommended Dilutions:</b> WB 1:500-1:3000 IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> DIRAS family, GTP-binding RAS-like 1	<b>Calculated MW:</b> 198 aa, 22 kDa
<b>Isotype:</b> IgG	<b>Observed MW:</b> 22-24 kDa	<b>IHC 1:50-1:500</b>
<b>Immunogen Catalog Number:</b> AG3329		

## Applications

<b>Tested Applications:</b> IHC, IP, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IHC, WB	<b>WB:</b> human brain tissue, human placenta tissue, MCF-7 cells
<b>Species Specificity:</b> human, mouse	<b>IP:</b> mouse brain tissue,
<b>Cited Species:</b> human, rat	<b>IHC:</b> human oesophagus tissue,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

DIRAS1 belongs to the small guanosine triphosphatase (GTPase) Ras superfamily. DIRAS1 is frequently downregulated in human cancers due to DNA copy number loss, loss of heterozygosity (LOH), and hypermethylation of the promoter. The restoration of DIRAS1 has been reported to suppress tumor growth and metastasis in human neural tumors, esophageal cancer, colorectal cancer, and ovarian cancer.

## Notable Publications

Author	Pubmed ID	Journal	Application
Tan Ma	29064414	Int J Environ Res Public Health	WB,IHC
Tanja Rothhammer-Hampl	34680261	Cancers (Basel)	WB
Carmen Bergom	26814130	J Biol Chem	WB

## Storage

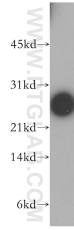
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

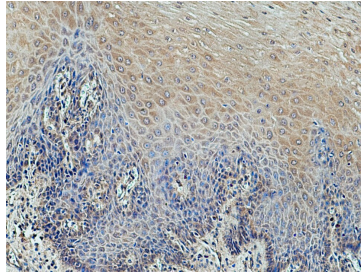
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

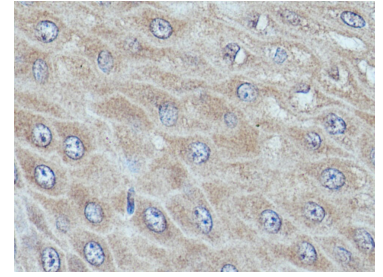
## Selected Validation Data



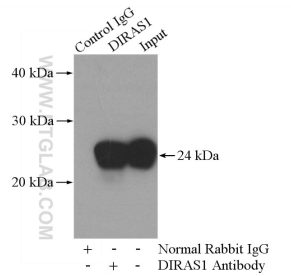
human brain tissue were subjected to SDS PAGE followed by western blot with 12634-1-AP (DIRAS1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human oesophagus tissue slide using 12634-1-AP (DIRAS1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human oesophagus tissue slide using 12634-1-AP (DIRAS1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP Result of anti-DIRAS1 (IP:12634-1-AP, 4ug; Detection:12634-1-AP 1:1000) with mouse brain tissue lysate 2640ug.