For Research Use Only

IRG1 Polyclonal antibody

Catalog Number: 28436-1-AP 3 Publications



Basic Information

Catalog Number:

28436-1-AP Size:

700 μg/ml Source: Rabbit

Isotype:

Immunogen Catalog Number:

AG28913

Observed MW: 50 kDa

GenBank Accession Number:

NM_001258406 GeneID (NCBI): 730249

UNIPROT ID: A6NK06 Full Name:

immunoresponsive 1 homolog

(mouse)

Calculated MW: 53 kDa

Positive Controls:

WB: IFN gamma+LPS treated THP-1 cells, LPS treated

Purification Method:

WB 1:500-1:2000

Antigen affinity purification

Recommended Dilutions:

RAW 264.7 cells

Applications

Tested Applications:

WB, ELISA

Cited Applications:

Species Specificity: human, mouse Cited Species:

human, mouse

Background Information

The host Immune-Responsive Gene 1 (IRG1; also called Acod1) is a mitochondrial enzyme induced under $inflammatory\ conditions\ that\ produces\ the\ metabolite\ it a conate\ by\ decarboxylating\ cis-aconitate,\ a\ TCA\ cycle$ intermediate. Gene expression profiling studies of murine macrophages and microglial cells have revealed that IRG1 is highly expressed under pro-inflammatory conditions. Furthermore, IRG1 is highly expressed in the pregnant uterus during the early events leading to implantation, the specific phase of pregnancy in which high levels of inflammatory cytokines are secreted. IRG1 localizes to the mitochondria and may represent a key link between immunological and metabolic processes. IRG1 has crucial functions in embryonic implantation and increased ROS production. (PMID: 25640654)

Notable Publications

Author	Pubmed ID	Journal	Application
Ru-Xue Qin	39618923	J Inflamm Res	WB
Pei Zhou	38788445	Int Immunopharmacol	WB
Pei Zhou	38641760	Apoptosis	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

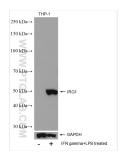
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

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

Selected Validation Data



IFN gamma+LPS treated THP-1 cells were subjected to SDS PAGE followed by western blot with 28436-1-AP (IRG1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.