#### For Research Use Only

# IRG1 Polyclonal antibody

Catalog Number: 28436-1-AP 6 Publications



**Basic Information** 

Catalog Number: 28436-1-AP Concentration: 700 μg/ml

Rabbit Isotype:

Source:

Immunogen Catalog Number:

AG28913

Observed MW:

50 kDa

GenBank Accession Number:

immunoresponsive 1 homolog

NM\_001258406

GeneID (NCBI):

**UNIPROT ID:** 

730249

A6NK06 Full Name:

(mouse)

Calculated MW: 53 kDa

**Purification Method:** Antigen affinity purification Recommended Dilutions: WB 1:500-1:2000

**Applications** 

**Tested Applications:** WB, ELISA

**Cited Applications:** 

Species Specificity: human, mouse Cited Species: human, mouse

#### Positive Controls:

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

RAW 264.7 cells

## **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
Liwu Zeng	39910615	Cell Commun Signal	WB
Guanjun Li	39901156	Cell Commun Signal	WB
Fang Wang	39870006	Int Immunopharmacol	WB

Storage

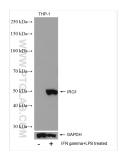
Storage:

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

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

### 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.