

For Research Use Only

CoraLite® Plus 488-conjugated IRG1 Recombinant monoclonal antibody

Catalog Number: CL488-86725



Basic Information

Catalog Number: CL488-86725	GenBank Accession Number: NM_001258406	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 730249	CloneNo.: 251531C12
Source: Rabbit	UNIPROT ID: A6NK06	Recommended Dilutions: IF/ICC: 1:50-1:500
Isotype: IgG	Full Name: immunoresponsive 1 homolog (mouse)	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG28913	Calculated MW: 53 kDa	
	Observed MW: 53 kDa	

Applications

Tested Applications: IF/ICC	Positive Controls: IF/ICC : LPS treated RAW 264.7 cells,
Species Specificity: 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 itaconate 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 neurodegeneration. Also, IRG1 promotes endotoxin tolerance by increasing A20 expression in macrophages via increased ROS production. (PMID: 25640654)

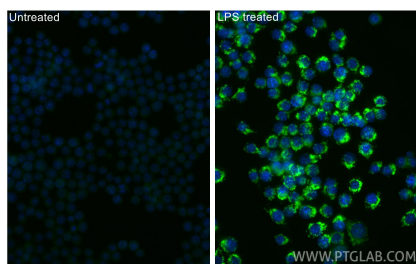
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

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)
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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



Immunofluorescent analysis of (-20°C Ethanol) fixed untreated or LPS treated RAW 264.7 cells using CoraLite® Plus 488 IRG1 antibody (CL488-86725, Clone: 251531C12) at dilution of 1:200.