

# CoraLite® Plus 647-conjugated IBA1 Monoclonal antibody

Catalog Number: **CL647-66827**

## Basic Information

**Catalog Number:**

CL647-66827

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG2a

**Immunogen Catalog Number:**

AG28236

**GenBank Accession Number:**

BC009474

**GeneID (NCBI):**

199

**ENSEMBL Gene ID:**

ENSG00000204472

**UNIPROT ID:**

P55008

**Full Name:**

allograft inflammatory factor 1

**Calculated MW:**

17 kDa

**Purification Method:**

Protein G purification

**CloneNo.:**

1C6A10

**Excitation/Emission maxima wavelengths:**

654 nm / 674 nm

## Applications

**Tested Applications:**

FC (Intra)

**Species Specificity:**

human

## Background Information

AIF1, also named as G1, IBA1 or daintain/AIF-1, is a 143 amino acid cytoplasmic, inflammation response scaffold protein. It is constitutively expressed in monocytes and macrophages and is known to be involved in macrophage activation. It is a marker of activated macrophage. Despite a lack of detailed knowledge on the in vivo physiological functions of AIF-1, there is growing evidence that shows its aberrant expression contributes to the pathogenesis of many autoimmune diseases, including rheumatoid arthritis. (20944424). AIF1 is an actin-binding protein that enhances membrane ruffling and RAC activation. It enhances lymphocyte migration and the actin-bundling activity of LCP1. AIF1 plays a role in RAC signaling and in phagocytosis and a role in vascular inflammation. AIF1 promotes the proliferation of vascular smooth muscle cells and of T-lymphocytes. It is also as a microglial cell marker.

## Storage

**Storage:**

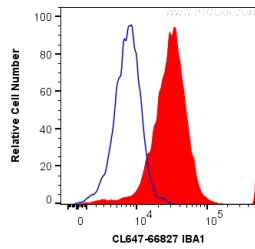
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



1X10<sup>6</sup> THP-1 cells were intracellularly stained with 0.2 ug CoraLite® Plus 647 Anti-Human IBA1 (CL647-66827, Clone:1C6A10) (red), or 0.2 ug Control Antibody. (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).