

For Research Use Only

# CoraLite®594-conjugated IBA1 Monoclonal antibody



Catalog Number:CL594-66827

1 Publications

## Basic Information

<b>Catalog Number:</b> CL594-66827	<b>GenBank Accession Number:</b> BC009474	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 2000 µg/ml	<b>GeneID (NCBI):</b> 199	<b>CloneNo.:</b> 1C6A10
<b>Source:</b> Mouse	<b>ENSEMBL Gene ID:</b> ENSG00000204472	<b>Excitation/Emission maxima wavelengths:</b> 593 nm / 614 nm
<b>Isotype:</b> IgG1	<b>UNIPROT ID:</b> P55008	
<b>Immunogen Catalog Number:</b> AG28236	<b>Full Name:</b> allograft inflammatory factor 1	
	<b>Calculated MW:</b> 17 kDa	

## Applications

**Tested Applications:**  
IF

**Cited Applications:**  
IF

**Species Specificity:**  
Human

**Cited Species:**  
mouse

## 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Chan Chen	30980952	Brain Behav Immun	IF

## Storage

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

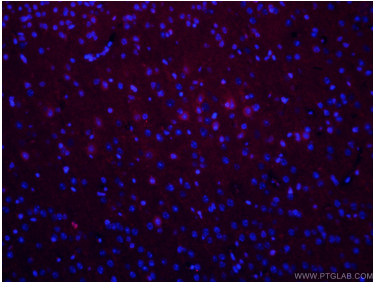
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

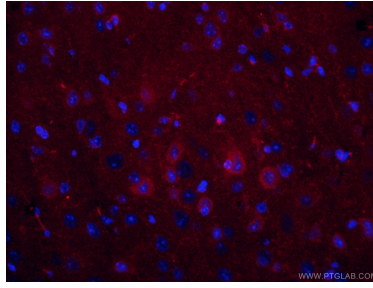
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using CL594-66827 (IBA1 antibody) at dilution of 1:50.



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