

Datasheet for ABIN2857032  
**anti-Iba1 antibody (C-Term)**[Go to Product page](#)**1** Validation**17** Images**13** Publications

## Overview

Quantity:	100 µL
Target:	Iba1 (IBA1)
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Iba1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Free Floating) (IHC (ff))

## Product Details

Immunogen:	Carrier-protein conjugated synthetic peptide encompassing a sequence within the C-terminus region of human Iba1. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Rabbit Polyclonal antibody to Iba1 (allograft inflammatory factor 1) Iba1 antibody
Purification:	Purified by antigen-affinity chromatography.

## Target Details

Target:	Iba1 (IBA1)
Alternative Name:	allograft inflammatory factor 1 ( <a href="#">IBA1 Products</a> )
Background:	This gene is induced by cytokines and interferon. Its protein product is thought to be involved in negative regulation of growth of vascular smooth muscle cells, which contributes to the anti-inflammatory response to vessel wall trauma. Three transcript variants encoding different isoforms have been found for this gene.
Molecular Weight:	17 kDa
Gene ID:	199
UniProt:	<a href="#">P55008</a>
Pathways:	<a href="#">Smooth Muscle Cell Migration</a>

## Application Details

Application Notes:	WB: 1:500-1:10000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. IHC-Fr: 1:100-1:1000. FACS: 1:50-1:200. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: mouse liver , rat liver Validation: Orthogonal
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	0.06 mg/mL
Buffer:	1XPBS ( pH 7), 1 % BSA, 20 % Glycerol, 0.025 % ProClin 300
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid

multiple freeze-thaw cycles.

## Publications

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Product cited in:

Kaehler, Seitter, Sandbichler, Tschugg, Obermair, Stefanova, Koschak: "Assessment of the Retina of Plp- $\alpha$ -Syn Mice as a Model for Studying Synuclein-Dependent Diseases." in: **Investigative ophthalmology & visual science**, Vol. 61, Issue 6, pp. 12, (2020) ([PubMed](#)).

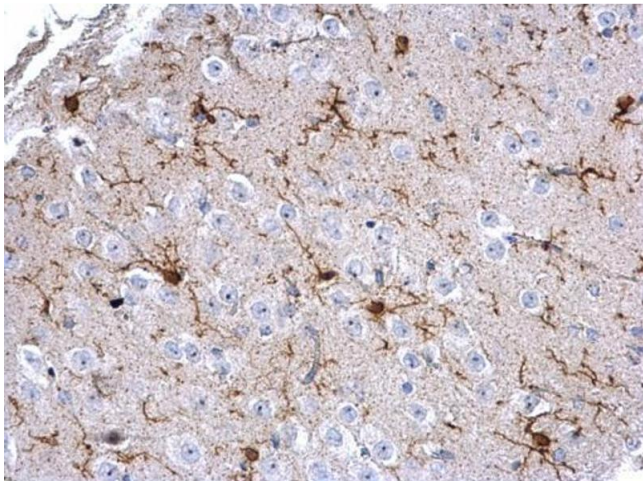
Wahle, Sofranko, Dekkers, Miller, Heusinkveld, Albrecht, Cassee, Schins: "Evaluation of neurological effects of cerium dioxide nanoparticles doped with different amounts of zirconium following inhalation exposure in mouse models of Alzheimer's and vascular disease." in: **Neurochemistry international**, Vol. 138, pp. 104755, (2020) ([PubMed](#)).

Li, Zhang, Yang, Blevins, Norris, Zhao, Huang: "C-terminal binding proteins 1 and 2 in traumatic brain injury-induced inflammation and their inhibition as an approach for anti-inflammatory treatment." in: **International journal of biological sciences**, Vol. 16, Issue 7, pp. 1107-1120, (2020) ([PubMed](#)).

Mondor, Baratin, Lagueyrie, Saro, Henri, Gentek, Suerinck, Kastenmuller, Jiang, Bajénoff: "Lymphatic Endothelial Cells Are Essential Components of the Subcapsular Sinus Macrophage Niche." in: **Immunity**, Vol. 50, Issue 6, pp. 1453-1466.e4, (2019) ([PubMed](#)).

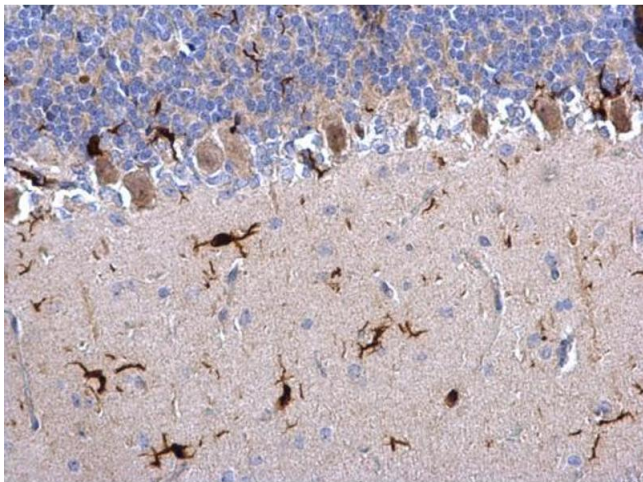
Olechnowicz, Weivoda, Lwin, Leung, Gooding, Nador, Javaid, Ramasamy, Rao, Edwards, Edwards: "Multiple myeloma increases nerve growth factor and other pain-related markers through interactions with the bone microenvironment." in: **Scientific reports**, Vol. 9, Issue 1, pp. 14189, (2019) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



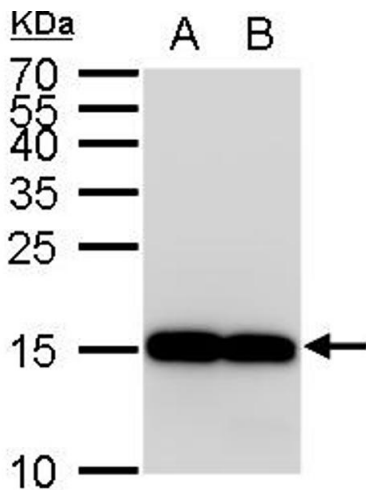
Immunohistochemistry

**Image 1.** IHC-P Image Iba1 antibody detects Iba1 protein on mouse fore brain by immunohistochemical analysis. Sample: Paraffin-embedded mouse fore brain. Iba1 antibody , dilution: 1:500.



Immunohistochemistry

**Image 2.** IHC-P Image Iba1 antibody detects Iba1 protein on rat hind brain by immunohistochemical analysis. Sample: Paraffin-embedded rat hind brain. Iba1 antibody , dilution: 1:500.



Western Blotting

**Image 3.** WB Image Iba1 antibody detects Iba1 protein by western blot analysis. A. 30 µg THP-1 whole cell lysate/extract B. 30 µg HL-60 whole cell lysate/extract 15 % SDS-PAGE Iba1 antibody , dilution: 1:1000

Please check the [product details page](#) for more images. Overall 17 images are available for ABIN2857032.



## Successfully validated (Immunofluorescence (IF))

by [Centre d'Immunologie de Marseille-Luminy](#)

Report Number: 101924

Date: Oct 19 2017

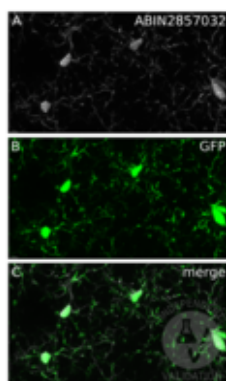
Target:	AIF1
Lot Number:	39476
Method validated:	Immunofluorescence (IF)
Positive Control:	PFA fixed tissue section brain of CX3CR1 GFP mouse. Staining with Iba1 (Wako, 019-19741) and Donkey anti-rabbit Fab'2 AlexaFluor 647
Notes:	Passed. Immunostaining of mouse brain samples with ABIN2857032 shows specifically the expected staining pattern.
Primary Antibody:	ABIN2857032
Secondary Antibody:	donkey Fab'2 anti-rabbit A647 conjugated antibody (Jackson ImmunoResearch, 711-606-152, lot 128806)
Protocol:	<ul style="list-style-type: none"> <li>• Harvest Brain from 13 weeks old mice in 1x Dulbecco's phosphate buffered saline (DPBS) (Gibco Life Technologies, 14200-067).</li> <li>• Fix mouse brain in antigen fix (Diapath, P0014) for 2h at RT.</li> <li>• Wash tissue in 0.1M pH7.4 phosphate buffer at for 1h at 4°C.</li> <li>• Dehydrate tissue in 30% sucrose solution ON at 4°C.</li> <li>• Snap freeze tissue in Tissue Freezing Medium (ElectroMicroscopy Science, 72592-C) at -80°C.</li> <li>• Cut blocks into 20µm sections using a cryostat (Leica, CM3050 S).</li> <li>• Transfer sections to a slide.</li> <li>• Create a hydrophobic barrier on the slide around sections with Dako pen (Dako, S2002, lot 00081640).</li> <li>• Place slide in a humidified chamber and rehydrate sections in 0.1M TrisHCl pH7.4 for 10min at RT.</li> <li>• Gently remove buffer by tapping slide.</li> <li>• Permeabilize tissue in 0.1M TrisHCl pH7.4 containing 2% Triton X-100 (Sigma, batch 015K0039) and 0.5% BSA, for 20min at RT.</li> <li>• Incubate sections with primary AIF1 (c-term) (antibodies-online, ABIN2857032, Lot 39476) diluted 1:500 in 0.1M TrisHCl pH7.4 containing 2% Triton X-100 (Sigma, batch 015K0039) and 0.5% BSA for 5h at RT. Incubate the negative contrls sections with diluted rabbit serum.</li> <li>• Wash slides 1x 5min in 0.1M TrisHCl pH7.4.</li> </ul>

## Validation report #101924 for Immunofluorescence (IF)

- Incubate sections with secondary donkey Fab'2 anti-rabbit A647 conjugated antibody (Jackson ImmunoResearch, 711-606-152, lot 128806) diluted 1:500 in 0.1M TrisHCl pH7.4 containing 2% Triton X-100 and 0.5% BSA ON at RT.
- Wash slides 1x 5min in 0.1M TrisHCl pH7.4.
- Add approximately 10µl of Slowfade® Gold antifade reagent (Life technologies, 536937, lot 1226836) for each section and mount cover slip.
- Image acquisition on a LSM 880 (Zeiss), 20x magnification, 1000 resolution.

Experimental Notes: Microglial cells in the brain of the CX3CR1 GFP mouse expressing GFP are [known to express Aif-1](#). Immunostaining of the PFA fixed tissue sections with ABIN2857032 showed the expected co-localization of the GFP and Aif-1 signals.

### Image for Validation report #101924



**Validation image no. 1 for anti-Ionized Calcium-binding Adapter Molecule 1 (IBA1) (C-Term) antibody (ABIN2857032)**

Colocalization (C) of the signals in PFA fixed tissue sections of CX3CR1 GFP mouse brain for the immunostaining of with ABIN2857032 (A) and GFP (B).