

Datasheet: AHP2024

Description:	GOAT ANTI AIF1 (C-TERMINAL)
Specificity:	AIF1 (C-TERMINAL)
Other names:	IBA1
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			2.0ug/ml
ELISA	▪			1/32000
Immunoprecipitation			▪	
Western Blotting	▪			1.0 - 3.0ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1)This antibody requires heat-mediated antigen retrieval prior to staining paraffin sections. Tris/EDTA buffer pH9.0 is recommended for this purpose.

Target Species	Human
Species Cross Reactivity	<p>Reacts with: Mouse, Rat</p> <p>Based on sequence similarity, is expected to react with: Pig</p> <p>N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
Product Form	Purified IgG - liquid

Antiserum Preparation Antiserum to human AIF1 (CT) was raised by repeated immunisation of goats with highly purified antigen. Purified IgG was prepared by affinity chromatography.

Buffer Solution TRIS buffered saline

Preservative 0.02% Sodium Azide (NaN₃)
Stabilisers 0.5% Bovine Serum Albumin

Approx. Protein Concentrations IgG concentration 0.5mg/ml

Immunogen Synthetic peptide sequence C-TGPPAKKAISELP from the C-terminal region of AIF1 (NP_116573.1; NP_001614.3).

External Database Links

UniProt:

[P55008](#) [Related reagents](#)

[P55009](#) [Related reagents](#)

Entrez Gene:

[199](#) AIF1 [Related reagents](#)

[29427](#) Aif1 [Related reagents](#)

Synonyms G1, Iba1, IBA1, Mrf1

RRID AB_2224406

Specificity recognizes human allograft inflammatory factor 1 (AIF1), otherwise known as Ionized calcium-binding adapter molecule 1 (IBA1). AIF1 is a 147 amino acid ~17kDa actin-binding protein involved in macrophage activation, vascular smooth muscle cell proliferation and activation and T-lymphocyte proliferation ([UniProt P55008](#)). Goat anti AIF1 antibody recognizes epitopes at the C-terminal region of AIF1 and is expected to recognize AIF1 isoform 1 and isoform 3 formed by alternative splicing.

AIF1 was first identified in rat cardiac allografts with chronic rejection ([Utans *et al.* 1995](#)), is expressed by activated monocytes and macrophages ([Orsmark *et al.* 2007](#)) and plays a significant role in vascular inflammation ([Chen *et al.* 2004](#))

Goat anti AIF1 has been used successfully for the identification of AIF1 expressing cells in an inflammatory model in formalin fixed mouse brain following heat mediated antigen retrieval with sodium citrate buffer by immunohistochemistry ([Wang *et al.* 2014](#)).

Western Blotting AHP2024 detects a band of approximately 16kDa in rat brain cell lysates.

References

1. Wang, X. *et al.* (2014) Pseudoginsenoside-F11 (PF11) exerts anti-neuroinflammatory effects on LPS-activated microglial cells by inhibiting TLR4-mediated TAK1/IKK/NF-κB, MAPKs and Akt signaling pathways. [Neuropharmacology. 79: 642-56.](#)
2. Kang, D.H. *et al.* (2020) Effects of Cerebrolysin on Hippocampal Neuronal Death After

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10058 available at: 10058: <https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[100x ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M382833:210513'

Printed on 05 Oct 2021