# Datasheet: AHP2024 BATCH NUMBER 168380

Description:	GOAT ANTI AIF1 (C-TERMINAL)
Specificity:	AIF1 (C-TERMINAL)
Other names:	IBA1
Format:	Purified
Product Type:	Polyclonal Antibody
lsotype:	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	originato	ors. Pleas	e refer to references in	dicated for further		
	information. For general p	information. For general protocol recommendations, please visit <u>www.bio-</u>					
	rad-antibodies.com/protoc						
		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		
	necessarily exclude its use in such procedures. Suggested working dilutions are given a 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	Reacts with: Mouse, Rat						
Reactivity	Based on sequence similarity, is expected to react with:Pig						
	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.						

Product Form	Purified IgG - liquid			
Antiserum Preparation	ion 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 Stabilisers	0.02% Sodium Azide (NaN <sub>3</sub> ) 0.5% Bovine Serum Albumin			
Approx. Protein Concentrations	IgG concentration 0.5mg/ml			
Immunogen	Synthetic peptide sequence C-TGPPAKKAISELP from the C-te (NP_116573.1; NP_001614.3).	erminal region of AIF1		
External Database Links	UniProt:P55008Related reagentsP55009Related reagentsEntrez Gene:199AIF1Related reagents29427Aif1Related reagents			
Synonyms	G1, Iba1, IBA1, Mrf1			
RRID	AB_2224406			
Specificity	<b>Goat anti AIF1 antibody</b> recognizes human allograft inflamma otherwise known as Ionized calcium-binding adapter molecule amino acid ~17kDa actin-binding protein involved in macropha smooth muscle cell proliferation and activation and T-lymphocy P55008). Goat anti AIF1 antibody recognizes epitopes at the C and is expected to recognize AIF1 isoform 1 and isoform 3 for AIF1 was first identified in rat cardiac allografts with chronic re- is expressed by activated monocytes and macrophages (Orsm significant role in vascular inflammation (Chen <i>et al.</i> 2004)	1 (IBA1). AIF1 is a 147 ige activation, vascular yte proliferation ( <u>UniProt</u> C-terminal region of AIF1 med by alternative splicing.		
	Goat anti AIF1 has been used successfully for the identificatio an inflammatory model in formalin fixed mouse brain following retrieval with sodium citrate buffer by immunohistochemistry (	heat mediated antigen		
Western Blotting	an inflammatory model in formalin fixed mouse brain following	heat mediated antigen <u>Vang <i>et al</i>. 2014</u> ).		

	2. Wu, C. <i>et al.</i> (2022) E3 ubiquitin ligase Triad1 promotes neuronal apoptosis by regulating the p53-caspase3 pathway after spinal cord injury. <u>Somatosens Mot Res. 39</u>
	<u>(1): 21-8.</u>
	3. Zhou, C. et al. (2022) Mild Hypothermia Protects Brain Injury After Intracerebral
	Hemorrhage in Mice Via Enhancing the Nrdp1/MyD88 Signaling Pathway. <u>Neurotox Res.</u>
	<u>40 (6): 1664-72.</u>
	4. Sheu, M.L. et al. (2023) Thrombin-Induced Microglia Activation Modulated through Aryl
	Hydrocarbon Receptors. Int J Mol Sci.24 (14):11416.
	5. Lu, X. et al. (2018) HAX1 is associated with neuronal apoptosis and astrocyte
	proliferation after spinal cord injury. <u>Tissue Cell. 54: 1-9.</u>
	6. Yu, M. et al. (2023) PU.1 interaction with p50 promotes microglial-mediated
	inflammation in secondary spinal cord injury in SCI rats. Int J Neurosci. 133 (4): 389-402.
	7. Lassen, L.B. et al. (2022) Mutation of Tyrosine Sites in the Human Alpha-Synuclein
	Gene Induces Neurotoxicity in Transgenic Mice with Soluble Alpha-Synuclein Oligomer
	Formation. <u>Cells. 11 (22): 3673.</u>
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	Material Safety Datasheet documentation #10058 available at:
Information	https://www.bio-rad-antibodies.com/SDS/AHP2024
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)

### Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M428172:240301'

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