

For Research Use Only

IBA1 Recombinant antibody

Catalog Number: 81728-1-RR



Basic Information

Catalog Number: 81728-1-RR	GenBank Accession Number: BC009474	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 199	CloneNo.: 4D5
Source: Rabbit	ENSEMBL Gene ID: ENSG00000204472	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 IF 1:250-1:1000
Isotype: IgG	UNIPROT ID: P55008	
Immunogen Catalog Number: AG1363	Full Name: allograft inflammatory factor 1	
	Calculated MW: 17 kDa	
	Observed MW: 17 kDa	

Applications

Tested Applications:
FC, IF-P, IHC, WB, ELISA

Species Specificity:
Human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: THP-1 cells,

IHC: rat brain tissue, mouse brain tissue, human liver tissue, mouse liver tissue

IF: rat brain tissue,

Background Information

IBA1 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. Expression of IBA1 is up-regulated in activated microglia following facial nerve axotomy, ischemia, and several brain diseases, thereby implicating it in the activated phenotypes of microglia.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

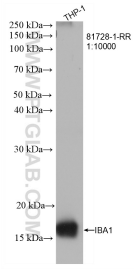
T: 4006900926

E: Proteintech-CN@ptglab.com

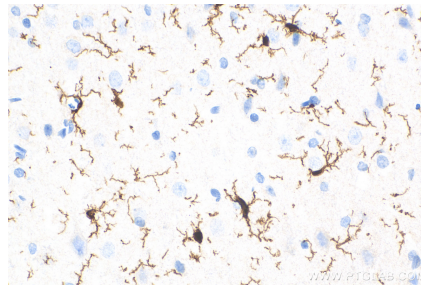
W: ptgcn.com

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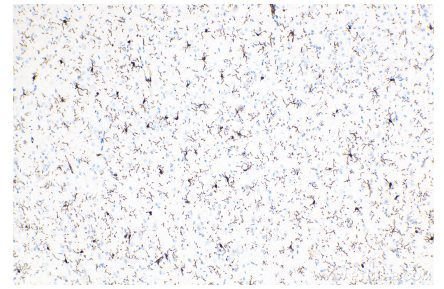
Selected Validation Data



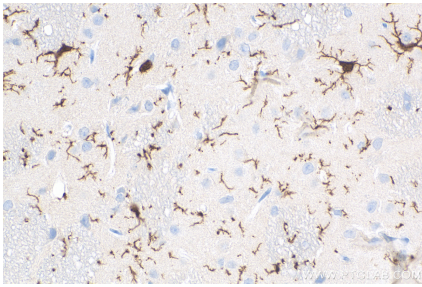
THP-1 cells were subjected to SDS PAGE followed by western blot with 81728-1-RR (IBA1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



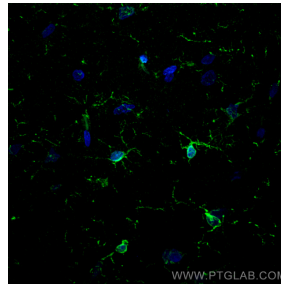
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 81728-1-RR (IBA1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



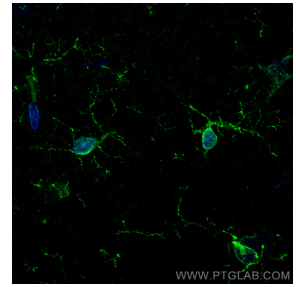
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 81728-1-RR (IBA1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



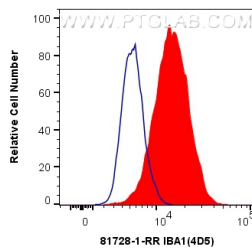
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 81728-1-RR (IBA1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using IBA1 antibody (81728-1-RR, Clone: 4D5) at dilution of 1:500 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using IBA1 antibody (81728-1-RR, Clone: 4D5) at dilution of 1:500 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1×10^6 THP-1 cells were intracellularly stained with 0.4 ug Anti-Human IBA1 (81728-1-RR, Clone:4D5) and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).