

For Research Use Only

IBA1 Polyclonal antibody

Catalog Number: 10904-1-AP

Featured Product

462 Publications



Basic Information

Catalog Number:

10904-1-AP

Concentration:

700 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1363

GenBank Accession Number:

BC009474

GeneID (NCBI):

199

ENSEMBL Gene ID:

ENSG00000204472

UNIPROT ID:

P55008

Full Name:

allograft inflammatory factor 1

Calculated MW:

17 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:2000-1:8000

IF-P: 1:50-1:500

FC (Intra): 0.40 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

IHC, IF-P, FC (Intra), ELISA

Cited Applications:

IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, pig, monkey, zebrafish, hamster, sheep

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:

IP: THP-1 cells,

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

IF-P: mouse brain tissue, rat brain tissue

FC (Intra): THP-1 cells,

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Yi-Na Zhang	36168082	Transl Stroke Res	IF
Anna Piotrowska	31616413	Front Immunol	
R Zajackowska	30267794	Pharmacol Biochem Behav	

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

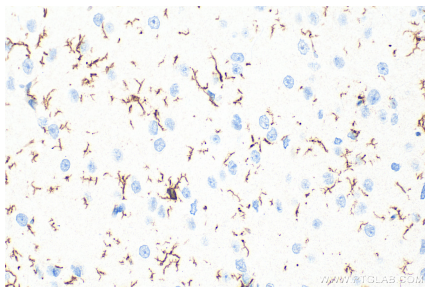
T: 4006900926

E: Proteintech-CN@ptglab.com

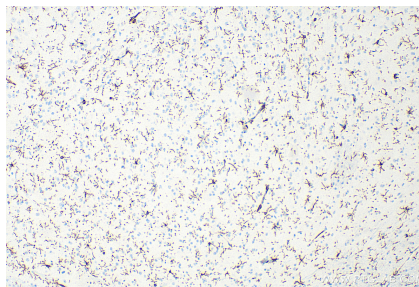
W: ptgcn.com

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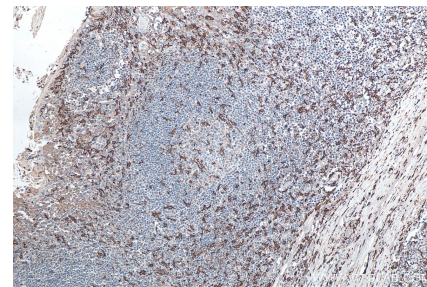
Selected Validation Data



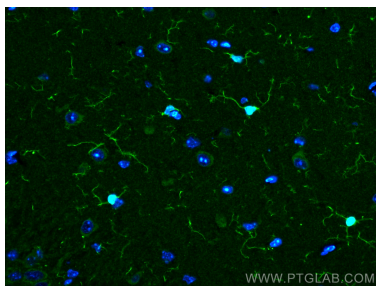
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 10904-1-AP (IBA1 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



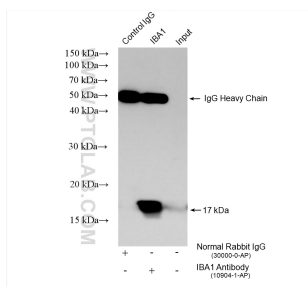
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 10904-1-AP (IBA1 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



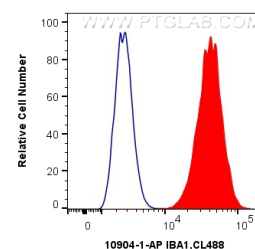
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 10904-1-AP (IBA1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



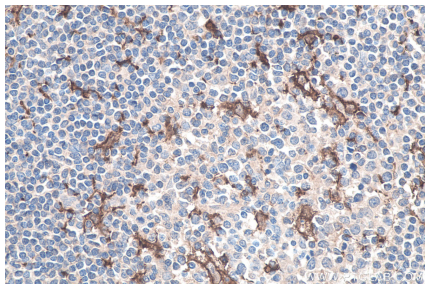
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using IBA1 antibody (10904-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-IBA 1 (IP:10904-1-AP, 4ug;
Detection:10904-1-AP 1:500) with THP-1 cells
lysate 2400 ug.



1X10⁶ THP-1 cells were intracellularly stained with 0.4 μ g Anti-Human IBA1 (10904-1-AP) and CoraLite[®] 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 μ g Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 10904-1-AP (IBA1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).