

For Research Use Only

IBA1 Polyclonal antibody

Catalog Number: 10904-1-AP

Featured Product

342 Publications



Basic Information

| | | | | | |
|---------------------------|------------|---------------------------|---------------------------------|------------------------|--|
| Catalog Number: | 10904-1-AP | GenBank Accession Number: | BC009474 | Purification Method: | Antigen affinity purification |
| Size: | 700 µg/ml | GeneID (NCBI): | 199 | Recommended Dilutions: | WB 1:500-1:2000 IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate IHC 1:400-1:1600 IF 1:50-1:500 |
| Source: | Rabbit | ENSEMBL Gene ID: | ENSG00000204472 | | |
| Isotype: | IgG | UNIPROT ID: | P55008 | | |
| Immunogen Catalog Number: | AG1363 | Full Name: | allograft inflammatory factor 1 | | |
| | | Calculated MW: | 17 kDa | | |

Applications

| | | | |
|--|---|--------------------|--|
| Tested Applications: | FC, IF/ICC, IF-P, IHC, IP, WB, ELISA | Positive Controls: | |
| Cited Applications: | IF, IHC | WB: | THP-1 cells, |
| Species Specificity: | human, mouse, rat | IP: | THP-1 cells, |
| Cited Species: | human, rat, sheep, mouse, zebrafish, hamster, pig | IHC: | rat brain tissue, human tonsillitis tissue, human liver tissue, mouse brain tissue, human brain tissue |
| <i>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</i> | | IF: | mouse brain tissue, 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.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|-----------------|-----------|-------------------------|-------------|
| Yi-Na Zhang | 36168082 | Transl Stroke Res | IF |
| Anna Piotrowska | 31616413 | Front Immunol | |
| R Zajaczkowska | 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

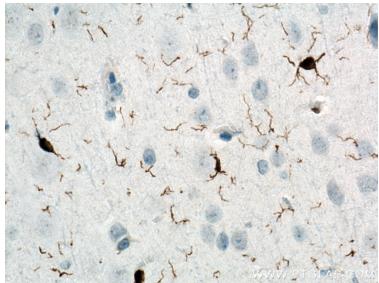
T: 4006900926

E: Proteintech-CN@ptglab.com

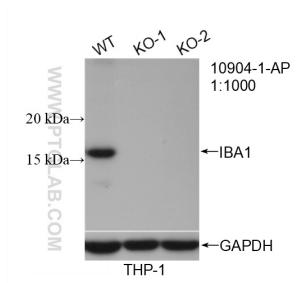
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



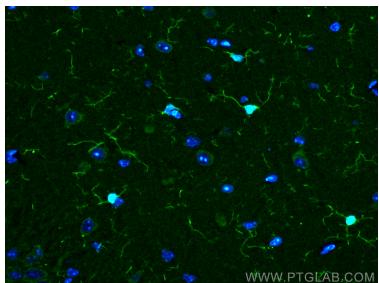
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 10904-1-AP (IBA1 antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



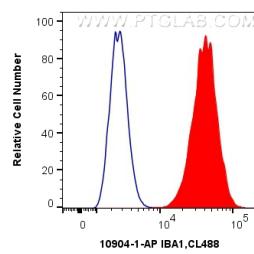
WB result of IBA1 antibody (10904-1-AP; 1:1000; room temperature for 1.5 hours) with wild-type and IBA1 knockout THP-1 cells.



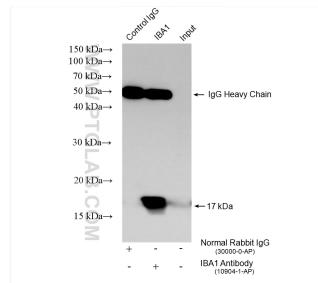
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 10904-1-AP (IBA1 antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



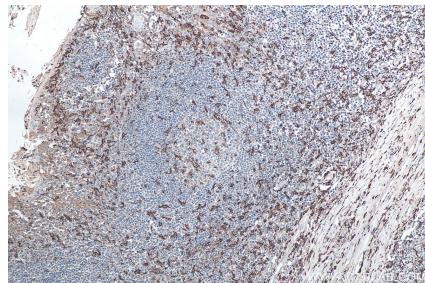
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using IBA1 antibody (10904-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



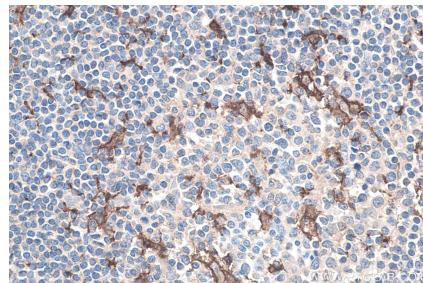
1X10⁶ THP-1 cells were intracellularly stained with 0.4 ug Anti-Human IBA1 (10904-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



IP result of anti-IBA1 (IP:10904-1-AP, 4ug; Detection:10904-1-AP 1:500) with THP-1 cells lysate 2400 ug.



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).



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).