Anti-Iba1 Antibody [8G8] - BSA and Azide free HA610321

Product Type:	Recombinant Mouse monoclonal IgG, primary antibodies		
Species reactivity:	Human, Mouse, Rat, Cynomolgus monkey, Pig WB, IHC-P, FC, IP, IHC-Fr, IF-Cell, IF-Tissue Predicted band size: 17 kDa 8G8		
Applications:			
Molecular Wt:			
Clone number:			
Description:	lonized calcium-binding adapter molecule 1 (Iba1), also known as allograft inflammatory factor-1 (AIF-1), is a 147 amino acid cytoplasmic, calcium-binding protein that is thought to play a role in macrophage activation and function. Iba1, containing two EF domains, is induced by cytokines and interferons. In an unstimulated state, Iba1 colocalizes with actin, and upon stimulation, translocates to lamellipodia. It is also a marker of human microglia and is expressed by macrophages in injured skeletal muscle. The gene encoding Iba1 maps to chromosome 6p21.33 and resides in the tumor necrosis factor (TNF) cluster of genes located in the region represented by the human major histocompatibility complex (MHC).		
lmmunogen:	Recombinant protein.		
Positive control:	Mouse brain tissue, mouse hippocampus tissue, rat brain tissue, RAW264.7, C6, human PBL whole cell lysates.		
Subcellular location:	Cytoplasm, cytoskeleton.		
Database links:	SwissProt: P55008 Human		
Recommended Dilutions: WB IHC-P IHC-Fr IF-Cell FC IP IF-Tissue	1:1,000 1:500-1:2000 1:1,000 1:200 1:200-1:1,000 Use at an assay dependent concentration 1:1,000		
Storage Buffer:	PBS (pH7.4).		
Storage Instruction:	Store at +4 $^\circ\!\!\!{\rm C}$ after thawing. Aliquot store at -20 $^\circ\!\!{\rm C}$. Avoid repeated freeze / thaw cycles.		
Purity:	Protein A affinity purified.		

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Images

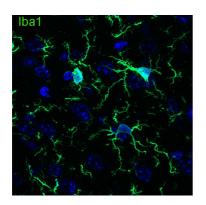


Fig1: Application: IHC-Fr Species: Mouse Site: Cerebral cortex Sample: Frozen section Antibody concentration: 1/1,000 Antigen retrieval: Not required

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MAP2	1. 18-18	
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RT1316	HA723025	DAPI

Fig2: Application: IHC-Fr

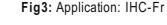
Species: Mouse

Site: Cerebellum

Sample: Frozen section

Antibody concentration: 1/1,000 (Iba1, HA610321, green); 1/500 (MAP2, HA723025, red)

Antigen retrieval: Not required



Species: Rat

Site: Cerebellum

Sample: Frozen section

Antibody concentration: 1/1,000 (Iba1, HA610321, green); 1/500 (MAP2, HA723025, red)

Antigen retrieval: Not required

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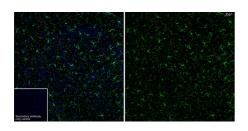


Fig4: Application: IHC-Fr

Species: Mouse

Site: Cerebral cortex

Sample: Frozen section

Antibody concentration: 1/1,000

Antigen retrieval: Not required

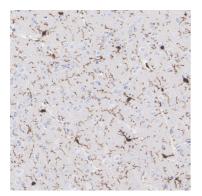


Fig5: Immunohistochemical analysis of paraffin-embedded mouse brain tissue with Mouse anti-Iba1 antibody (HA610321) at 1/500 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA610321) at 1/500 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



Fig6: Immunohistochemical analysis of paraffin-embedded mouse hippocampus tissue with Mouse anti-Iba1 antibody (HA610321) at 1/500 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA610321) at 1/500 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

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Fig7: Immunohistochemical analysis of paraffin-embedded rat brain tissue with Mouse anti-Iba1 antibody (HA610321) at 1/500 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA610321) at 1/500 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

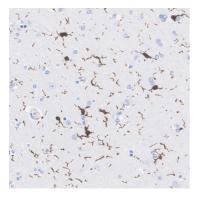
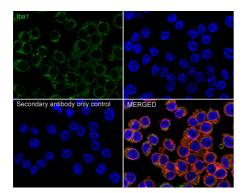


Fig8: Immunohistochemical analysis of paraffin-embedded human brain tissue with Mouse anti-Iba1 antibody (HA610321) at 1/500 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA610321) at 1/500 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Fig9: Immunocytochemistry analysis of RAW264.7 cells labeling lba1 with Mouse anti-Iba1 antibody (HA610321) at 1/200 dilution.



Cells were fixed in 4% paraformaldehyde for 15 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Mouse anti-Iba1 antibody (HA610321) at 1/200 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Mouse IgG H&L (iFluor[™] 488, HA1125) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (ET1602-4, red) was stained at 1/100 dilution overnight at $+4^{\circ}$ C. Goat Anti-Rabbit IgG H&L (iFluor 150 594, HA1122) was used as the secondary antibody at 1/1,000 dilution.

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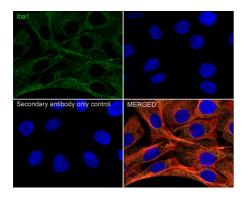


Fig10: Immunocytochemistry analysis of C6 cells labeling Iba1 with Mouse anti-Iba1 antibody (HA610321) at 1/200 dilution.

Cells were fixed in 4% paraformaldehyde for 15 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Mouse anti-Iba1 antibody (HA610321) at 1/200 dilution in 1% BSA in PBST overnight at 4 $^{\circ}$ C. Goat Anti-Mouse IgG H&L (iFluorTM 488, HA1125) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (ET1602-4, red) was stained at 1/100 dilution overnight at $+4^{\circ}$ C. Goat Anti-Rabbit IgG H&L (iFluor \pm 594, HA1122) was used as the secondary antibody at 1/1,000 dilution.

Fig11: Application: IF-Tissue

Species: Mouse

Site: brain

Sample: Paraffin-embedded section

Antibody concentration: 1/1,000

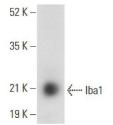
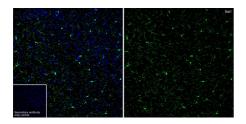


Fig12: Western blot analysis of Iba1 on human PBL whole cell lysate using anti-Iba1 antibody at 1/1,000 dilution.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

- 1. Arroba AI et al. Autophagy resolves early retinal inflammation in Igf1-deficient mice. Dis Model Mech 9:965-74 (2016).
- 2. James RE et al. Loss of galectin-3 decreases the number of immune cells in the subventricular zone and restores proliferation in a viral model of multiple sclerosis. Glia N/A:N/A (2015).



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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

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