

## Iba1 Recombinant Antibody [JM36-62] - Chicken IgY (Chimeric)

# HA601376



<b>Product Type:</b>	Recombinant Chimeric Antibody, primary antibodies
<b>Species reactivity:</b>	Mouse
<b>Applications:</b>	IHC-Fr
<b>Molecular Wt:</b>	Predicted band size: 17 kDa
<b>Clone number:</b>	JM36-62

**Description:** Ionized 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).

**Immunogen:** Synthetic peptide within N-terminal human Iba1.

**Positive control:** Mouse cerebellum tissue.

**Subcellular location:** Cytoplasm, cytoskeleton, Cell projection, ruffle membrane, Cell projection, phagocytic cup.

**Database links:** SwissProt: P55008 Human | O70200 Mouse | P55009 Rat

**Recommended Dilutions:**

IHC-Fr 1:500

**Storage Buffer:** 1\*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

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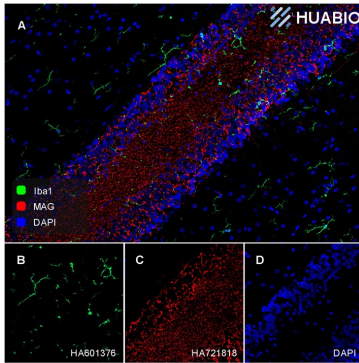
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**Fig1:** Immunofluorescence analysis of frozen mouse cerebellum tissue with Chicken anti-Iba1 antibody (HA601376) at 1/500 dilution.

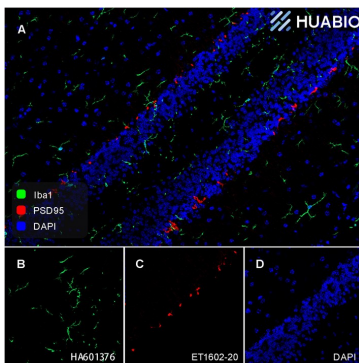


Important Notice: Antigen retrieval is not required before IHC-Fr staining.

The tissues were blocked in 10% negative goat serum for 1 hour at room temperature, washed with PBS, and then probed with the primary antibody (HA601376, green) at 1/500 dilution overnight at 4 °C, washed with PBS. Goat Anti-Chicken IgY H&L-Alexa Fluor® 488 was used as the secondary antibody at 1/1,000 dilution. Nuclei were counterstained with DAPI (blue).

Rabbit anti-MAG antibody (HA721818, red) was stained at 1/500 dilution overnight at +4°C. Goat Anti-Rabbit IgG H&L (iFluor™ 594, HA1122) was used as the secondary antibody at 1/1,000 dilution.

**Fig2:** Immunofluorescence analysis of frozen mouse cerebellum tissue with Chicken anti-Iba1 antibody (HA601376) at 1/500 dilution.



Important Notice: Antigen retrieval is not required before IHC-Fr staining.

The tissues were blocked in 10% negative goat serum for 1 hour at room temperature, washed with PBS, and then probed with the primary antibody (HA601376, green) at 1/500 dilution overnight at 4 °C, washed with PBS. Goat Anti-Chicken IgY H&L-Alexa Fluor® 488 was used as the secondary antibody at 1/1,000 dilution. Nuclei were counterstained with DAPI (blue).

Rabbit anti-PSD95 antibody (ET1602-20, red) was stained at 1/500 dilution overnight at +4°C. Goat Anti-Rabbit IgG H&L (iFluor™ 594, HA1122) was used as the secondary antibody at 1/1,000 dilution.

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

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### Background References

1. Hennessy E et al. Systemic TNF- $\alpha$  produces acute cognitive dysfunction and exaggerated sickness behavior when superimposed upon progressive neurodegeneration. *Brain Behav Immun* 59:233-244 (2017).
2. Arentsen T et al. The bacterial peptidoglycan-sensing molecule Pglyrp2 modulates brain development and behavior. *Mol Psychiatry* 22:257-266 (2017).

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