

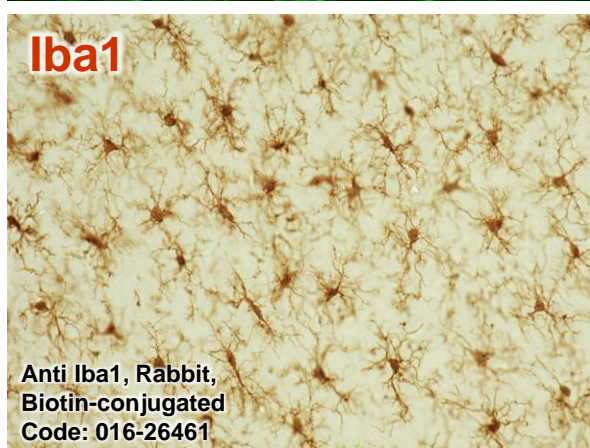
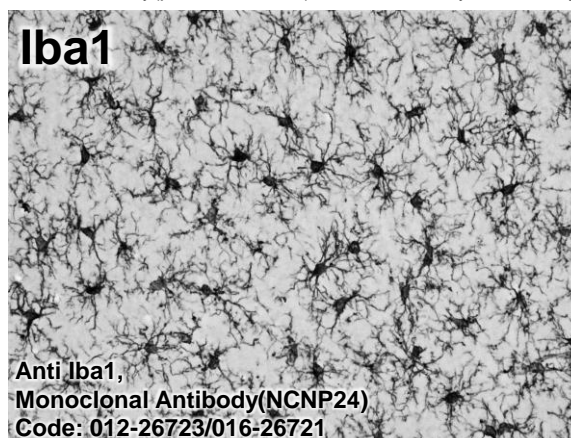
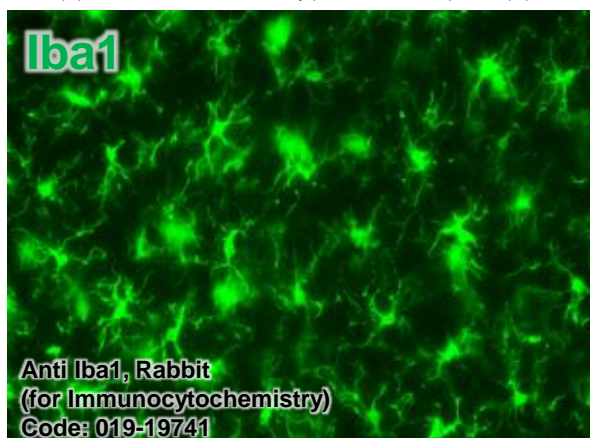
A microglial marker

Anti Iba1 antibody series

Iba1 is a calcium-binding protein with a molecular weight of 17,000 specifically expressed in macrophage/microglia. Recently, microglia has attracted attentions because neurological damage effect by production of NO, TNF- α , and IL-1 β have been proved in addition to its role in neurotrophic effects/neuroprotective actions. These products are antibodies that specifically recognize Iba1, and are available for a microglial marker.

| Type | Product Name | Wako Cat. No | Pkg. Size | Cross-reactivity | Applications |
|----------------------------|---|------------------------|--------------------------|----------------------|--------------|
| Rabbit polyclonal antibody | Anti Iba1, Rabbit (for Immunocytochemistry) | 019-19741 | 50 μ g | Mouse, rat, human | IHC(F),ICC |
| | Anti Iba1, Rabbit(for Paraffin Section) | 013-27691 | 50 μ g | Mouse, rat | IHC(P) |
| | Anti Iba1, Rabbit, Biotin-conjugated | 016-26461 | 100 μ L | Mouse, rat | IHC(F) |
| | Anti Iba1, Rabbit, Red Fluorochrome(635)-conjugated | 013-26471 | 100 μ L | Mouse, rat | IHC(F) |
| | Anti Iba1, Rabbit (for Western Blotting) | 016-20001 | 50 μ g | Mouse, rat, human | WB |
| Mouse monoclonal antibody | Anti Iba1, Monoclonal Antibody (NCNP24) | 012-26723 016-26721 | 10 μ L 50 μ L | Mouse, rat, marmoset | IHC(F) |
| | Anti Human Iba1, Monoclonal Antibody (NCNP27) | 017-27591 013-27593 | 10 μ L 50 μ L | Human | IHC(P) |

IHC(F): immunohistochemistry(frozen section) IHC(P): immunohistochemistry(paraffin section) ICC: immunocytochemistry WB: western blotting



■ Experimental condition

Code No. 019-19741/012-26723/016-26721
Tissue: rat brain cortex
Section: frozen section
Antibody concentration: 1/1,000

Code No.016-26461/013-26471
Tissue: rat brain cortex
Section: frozen section
Antibody concentration: 1/200

Antibody information

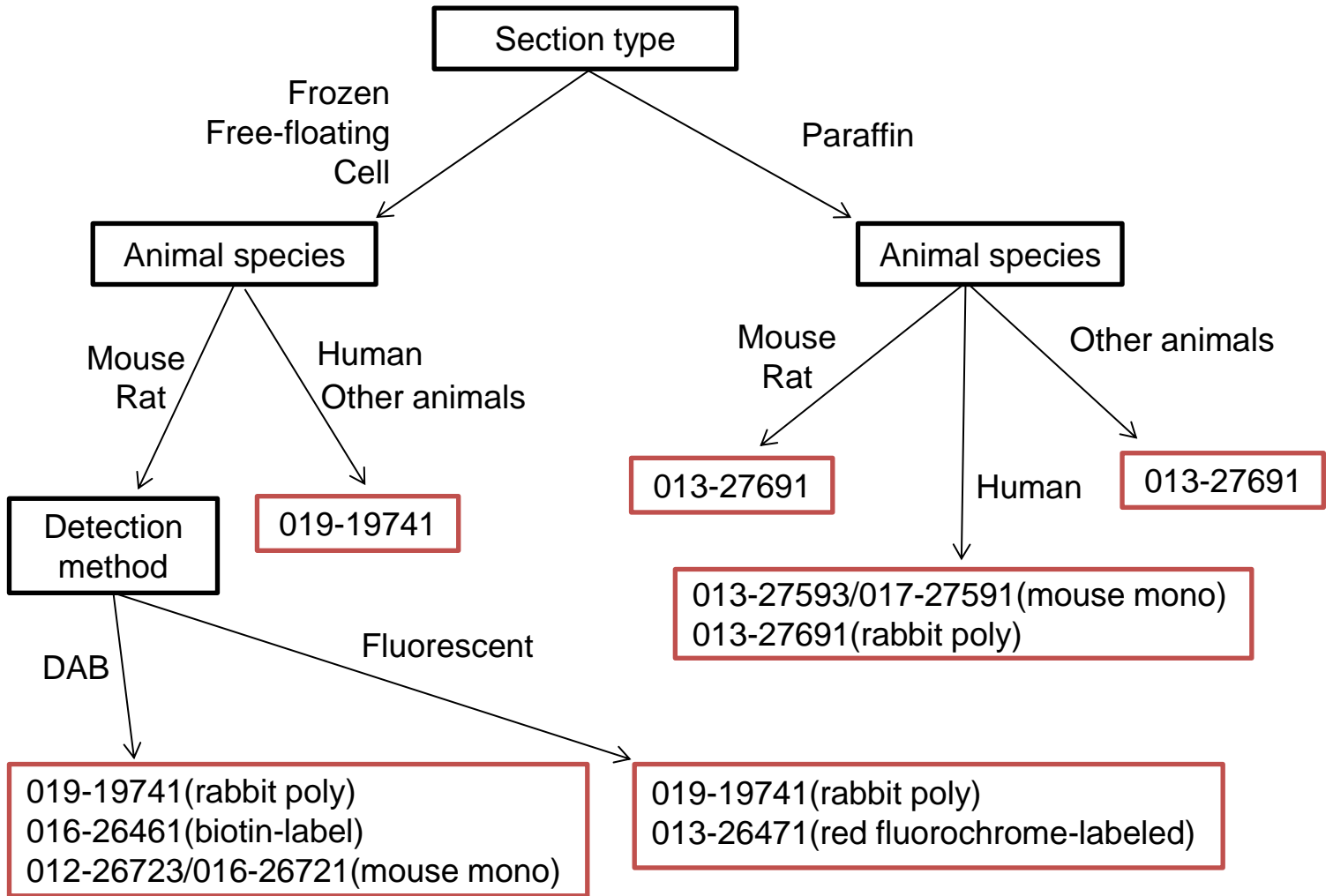
| Product | Polyclonal antibody | | | | | Monoclonal antibody | |
|----------------------|--|---|---|--|--|--|--|
| | Anti Iba1, Rabbit (for Immunocytochemistry) | Anti Iba1, Rabbit (for Paraffin Section) | Anti Iba1, Rabbit, Biotin-conjugated | Anti Iba1, Rabbit, Red Fluorochrome (635)-conjugated | Anti Iba1, Rabbit (for Western Blotting) | Anti Iba1, Monoclonal Antibody (NCNP24) | Anti Human Iba1, Monoclonal Antibody (NCNP27) |
| Wako No. (Pkg. Size) | 019-19741 (50 µg) | 013-27691 (50µg) | 016-26461 (100 µL) | 013-26471 (100 µL) | 016-20001 (50 µg) | 012-26723 (10 µL) 016-26721 (50 µL) | 017-27591 (10 µL) 013-27593 (50 µL) |
| Antigen | Synthetic peptide (C-terminal of Iba1) | | | | | Synthetic peptide (C-terminal of Iba1) | |
| Clone No. | - (Polyclonal) | | | | | NCNP24 | NCNP27 |
| Subclass | Rabbit IgG | | | | | Mouse IgG1 | Mouse IgG2 |
| Conjugate | - | - | Biotin | Red Fluorochrome (Ex=634, Em=654 nm) | - | - | - |
| Concentration | 0.5 mg/mL | 0.5 mg/mL | 0.5 mg/mL | 0.5 mg/mL | 0.5 mg/mL | 1.3 mg/mL (First lot) | 1.0 mg/mL (First lot) |
| Buffer | TBS | TBS | PBS, 0.05% NaN ₃ | PBS, 0.05% NaN ₃ | TBS | 50% Glycerol /TBS, 0.05% NaN ₃ | 50% Glycerol /TBS, 0.05%NaN ₃ |
| Cross-reactivity | Mouse, rat, human etc* | Mouse, rat | Mouse, rat | Mouse, rat | Mouse, rat, human | Mouse, rat, marmoset | Human |
| Applications | <ul style="list-style-type: none"> ■ Immunohistochemistry (frozen section) 1:500-1,000 ■ Immunocytochemistry 1:500-1,000 | <ul style="list-style-type: none"> ■ Immunohistochemistry (paraffin section) 1:500-1,000 | <ul style="list-style-type: none"> ■ Immunohistochemistry (frozen section) 1:200-2,000 | | <ul style="list-style-type: none"> ■ Western Blotting 1:500-1,000 | <ul style="list-style-type: none"> ■ Immunohistochemistry (frozen section, DAB) 1:500-2,000 ■ Immunohistochemistry (frozen section, fluorescent) 1:100 | <ul style="list-style-type: none"> ■ Immunohistochemistry (paraffin section, DAB) 1:100-1,000 |
| Reference | 1)2)3)4)5) | - | 6) | - | 7)8) | 9)10) | - |

* The paper using samples of dog¹⁾, cat²⁾, pig³⁾, marmoset⁴⁾ and zebrafish⁵⁾ have reported.

■ Reference

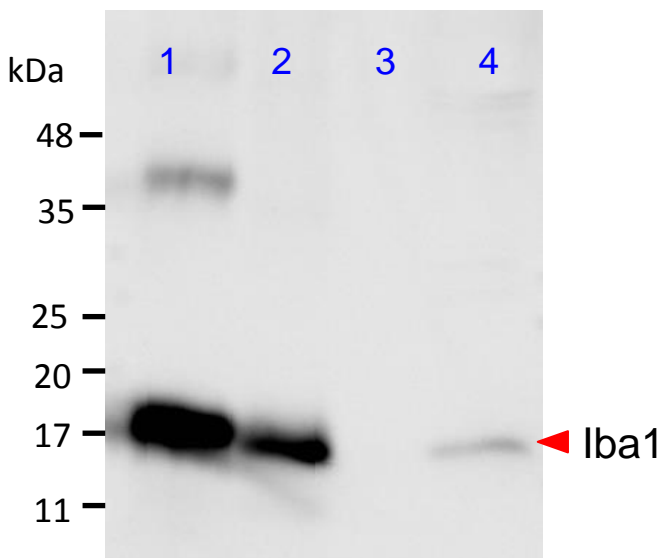
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- 2) Ide, T., et al.: *J. Vet. Med. Sci.*, 72, 1, 99 (2010).
- 3) Gaigé, S., et al.: *Neurotoxicology*, 34, 135(2013).
- 4) Rodriguez-Callejas, J.D. et al.: *Front. Aging Neurosci.*, 8, 315(2016).
- 5) Fantin, A., et al.: *Blood*, 116, 5, 829 (2010).
- 6) Jones, M. E., et al.: *Brain Behav. Immun.*, 67, 355(2018).
- 7) Sun, J.S. et al.: *Mol. Med. Rep.*, 12, 2, 2677(2015).
- 8) Grishchuk, Y., et al.: *Am. J. Pathol.*, 186, 1, 199(2016).
- 9) Wan, S., et al.: *J. Neuroinflammation*, 15, 31(2018).
- 10) Chen, Y., et al.: *Annals of Clinical and Translational Neurology*, 10.1002/acn3.513 (2017).

Select flowchart



Application data -western blotting-

016-20001 Anti Iba1, Rabbit (for Western Blotting)



Lane

1. Iba1 (10ng)
2. Rat microglia (10 µg)
3. Rat neuron (10 µg)
4. Rat cortex (150 µg)

Experimental condition

SDS-PAGE: 5.5 % stacking gel, 12.5 % running gel, 100V

Blocking: 3 % skim milk in TBS at RT for 1h

Primary antibodies: anti-Iba1 antibody(1/1000)

in 3 % skim milk in TTBS at 4 ° C O/N

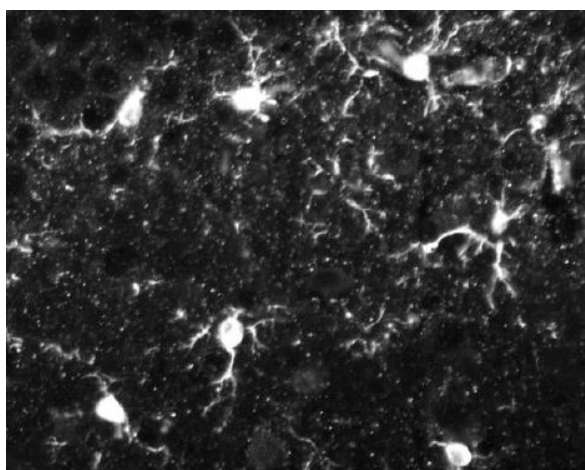
Secondary antibody: peroxidase labeled anti-rabbit antibody (1/5000)

in 3 % skim milk in TTBS at RT for 1h

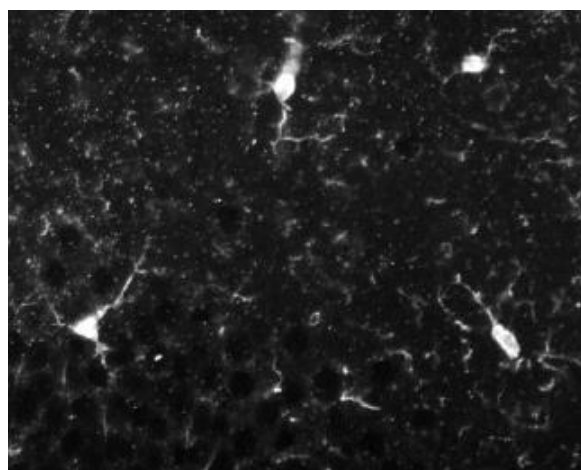
Application data –immunohistochemistry-

016-27691 Anti Iba1, Rabbit(for Paraffin Section)

Rat



Mouse



■ Experimental condition
Tissue : mouse and rat hippocampus neighborhood
Section : paraffin section
Antibody concentration : 1/1,000

Product List

| Product Name | Wako Cat. No | Pkg. Size | Grade | Storage Condition |
|---|------------------------|--------------|-------------------------|-------------------|
| Anti Iba1, Rabbit (for Immunocytochemistry) | 019-19741 | 50µg | For Immunocytochemistry | Keep at -20°C |
| Anti Iba1, Rabbit(for Paraffin Section) | 013-27691 | 50µg | For Immunocytochemistry | Keep at -20°C |
| Anti Iba1, Rabbit, Biotin-conjugated | 016-26461 | 100µL | For Immunocytochemistry | Keep at 2-10°C |
| Anti Iba1, Rabbit, Red Fluorochrome(635)-conjugated | 013-26471 | 100µL | For Immunocytochemistry | Keep at 2-10°C |
| Anti Iba1, Rabbit (for Western Blotting) | 016-20001 | 50µg | For Immunocytochemistry | Keep at -20°C |
| Anti Iba1, Monoclonal Antibody(NCNP24) | 012-26723 016-26721 | 10µL 50µL | For Immunocytochemistry | Keep at -20°C |
| Anti Human Iba1, Monoclonal Antibody(NCNP27) | 017-27591 013-27593 | 10µL 50µL | For Immunocytochemistry | Keep at -20°C |

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