

# ANTI IBA1 ANTIBODIES

## A MICROGLIAL MARKER

### Microglia and Mental Disorders

Iba1 is a calcium-binding protein with a molecular weight of 16.7 kDa, specifically expressed in macrophages/microglia. Microglia has attracted numerous attention due to its pivotal role in neurotrophic effects as well as neuroprotective indications.

In contrast to that, these cells are immunocompetent brain cells and are activated in response to neurological impairment during brain injuries or diseases. Obtaining these characteristics of being involved in the regulation of healthy brain functions and being the cause of various neurodegenerative disorders, the functional roles of glial cells need to be further evaluated.

FUJIFILM Wako Chemicals Europe GmbH provides a broad range of monoclonal and polyclonal antibodies to advance recent microglial research.

	Monoclonal antibodies		Polyclonal antibodies					
Product name	Anti Iba1, Monoclonal Antibody	Anti Human Iba1, Monoclonal Antibody	Anti Iba1, Rabbit (for ICC)	Anti Iba1, Goat <sup>new</sup>	Anti Iba1, Rabbit (for Paraffin Section)	Anti Iba1, Rabbit, Biotin conjugated	Anti Iba1, Rabbit, Red Fluorochrome (635) conjugated	Anti Iba1, Rabbit (for Western Blotting)
Wako No. (Pkg. Size)	012-26723 (10 µL) 016-26721 (50 µL)	017-27591 (10 µL) 013-27593 (50 µL)	019-19741 (50 µg)	011-27991 (100 µL)	013-27691 (50 µg)	016-26461 (100 µL)	013-26471 (100 µL)	016-20001 (50 µg)
Antigen	Synthetic peptide (C-terminal of Iba1)							
Clone No.	NCNP24	NCNP27	(polyclonal antibody)					
Subclass	Mouse IgG1	Mouse IgG2	Rabbit IgG					
Conjugate						Biotin	Red Fluorochrome (Ex: 634 nm, Em: 654 nm)	
Concentration	1.3 mg/mL	1.0 mg/mL	0.5 mg/mL	0.5-0.6 mg/mL	0.5 mg/mL			
Buffer	50% Glycerol / TBS, 0.05% NaN <sub>3</sub>	50% Glycerol / TBS, 0.05% NaN <sub>3</sub>	TBS	TBS	TBS	PBS, 0.05% NaN <sub>3</sub>	PBS, 0.05% NaN <sub>3</sub>	TBS
Cross Reactivity	Mouse, Rat, Marmoset	Human	Mouse, Rat, Human, etc.	Mouse, Rat	Mouse, Rat	Mouse, Rat, Marmoset	Mouse, Rat, Marmoset	Mouse, Rat, Human
Applications	<ul style="list-style-type: none"> <li>IHC 1:500-2,000 (frozen section, DAB)</li> <li>IHC 1:100 (frozen section, fluorescent)</li> </ul>	<ul style="list-style-type: none"> <li>IHC 1:100-1,000 (paraffin section, DAB)</li> </ul>	<ul style="list-style-type: none"> <li>IHC 1:500-1,000</li> <li>ICC 1:500-1,000</li> </ul>	<ul style="list-style-type: none"> <li>IHC 1:250-1,000 (frozen section)</li> <li>IHC 1:250-1,000 (paraffin section)</li> <li>Western Blotting 1:1,000</li> </ul>	<ul style="list-style-type: none"> <li>IHC 1:500-1,000 (paraffin section)</li> </ul>	<ul style="list-style-type: none"> <li>IHC 1:200-2,000 (frozen section)</li> </ul>		<ul style="list-style-type: none"> <li>Western Blotting 1:500-1,000</li> </ul>
Storage Condition	Keep at -20 °C					Keep at 2-10 °C		Keep at -20 °C

IHC = Immunohistochemistry; ICC = Immunocytochemistry

### Features

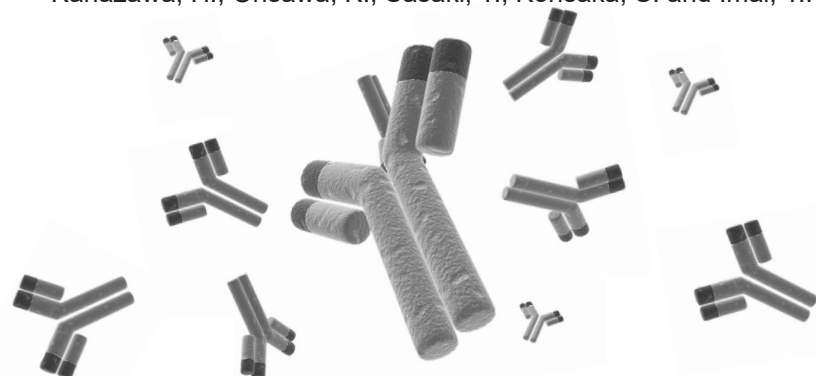
- For immunocytochemistry and Western blotting as well as for frozen and paraffin tissue sections
- Reactive with human, mouse, marmoset and rat
- Applicable to immuno-double staining of brain tissues and cell culture in combination with a monoclonal antibody to GFAP which specifically reacts to astrocytes

## Ordering Information

Wako Code	Product name	Package size	Application
012-26723	Anti Iba1, Monoclonal Antibody (NCNP24)	10 µL	IHC, frozen section, DAB, fluroscent
016-26721		50 µL	IHC, frozen section, DAB, fluroscent
017-27591	Anti Human Iba1, Monoclonal Antibody (NCNP27)	10 µL	IHC, paraffin section, DAB
013-27593		50 µL	IHC, paraffin section, DAB
019-19741	Anti Iba1, Rabbit (for Immunocytochemistry)	50 µg	IHC & ICC
013-27691	Anti Iba1, Rabbit (for Paraffin Section)	50 µg	IHC, paraffin section
016-26461	Anti Iba1, Rabbit, Biotin-conjugated	100 µL	IHC, frozen section
013-26471	Anti Iba1, Rabbit, Red Fluorochrome(635) conjugated	100 µL	IHC, frozen section
016-20001	Anti Iba1, Rabbit (for Western Blotting)	50 µg	Western Blotting
011-27991	Anti Iba1, Goat <small>new</small>	100 µL	IHC, paraffin and frozen section, Western Blotting

## References

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- Ito, D., Imai, Y., Ohsawa, K., Nakajima, K., Fukuuchi, Y. and Kohsaka, S.: *Brain Res. Mol. Brain Res.*, 57, 1 (1998).
- Ohsawa, K., Imai, Y., Kanazawa, H., Sasaki, Y. and Kohsaka, S.: *J. Cell Sci.*, 113, 3073 (2000).
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