FUJIFILM
Value from Innovation

Wako

Code No. 012-28521 ( 20µL)
018-28523 (100µ L)

# Anti Iba1, Rabbit Monoclonal Antibody (6A4), recombinant
# 抗 Iba1, ウサギモノクローナル抗体 (6A4), 組換え体

【Background】
Iba1 is a protein with a molecular weight of approximately 16.7 kDa that is highly expressed in microglia and macrophages in the nervous system[1] and is known to be a microglial marker. This product is a rabbit monoclonal antibody that reacts with Iba1.
This product is for research use only. Not for use in diagnostic procedures or therapeutic use.

【Product Summary】

| | |
|---|---|
| Reactivity | Mouse, rat (not studied in other species) |
| Clonality | Monoclonal (Clone No. 6A4) |
| Host | Rabbit |
| Conjugate | Unconjugated |
| Concentration | Described on the label |

【Product Details】

| | |
|---|---|
| Source | CHO-Spica cell derived antibody |
| Immunogen | Synthetic peptide corresponding to the C-terminus of Iba1 |
| Purity | Protein A affinity chromatography |
| Isotype | IgG |
| Form | Liquid |
| Preservative | 0.05% Sodium azide |
| Buffer | PBS with 50% glycerol |

【Application】
Immunohistochemistry (frozen section) 1:300-10,000
＊The optimal dilutions/concentrations should be determined by each laboratory.
＊Please visit our website through URL below and enter product code (012-28521 or 018-28523) to learn more about application data and instructions.

http://labchem.fujifilm-wako.com.cn/



【Storage】
Shipped at 2-10°C. Store at -20°C.
Avoid freeze/thaw cycle.

【Package】

| Code No. | Packaging |
|---|---|
| 012-28521 | 20µL |
| 018-28523 | 100µL |

【Reference】
1) Imai, Y., *et al.* : *Biochem. Biophys. Res. Commun.*, 224 (3), 855-862 (1996).
A novel gene iba1 in the major histocompatibility complex class III region encoding an EF hand protein expressed in a monocytic lineage

**FUJIFILM Wako Pure Chemical Corporation**
1-2, Doshomachi 3-Chome, Chuo-Ku, Osaka 540-8605, Japan
Telephone : + 81-6-6203-3741
Facsimile : + 81-6-6201-5964
http://www.wako-chem.co.jp

**FUJIFILM Wako Chemicals U.S.A. Corporation**
1600 Bellwood Road
Richmond, VA 23237
U.S.A.
Telephone : + 1-804-271-7677
Facsimile : + 1-804-271-7791
http://www.wakousa.com

**FUJIFILM Wako Chemicals Europe GmbH**
Fuggerstrasse 12
D-41468 Neuss
Germany
Telephone : + 49-2131-311-0
Facsimile : + 49-2131-311100
http://www.wako-chemicals.de

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Code No. 012-28521 (20 µL)
018-28523 (100 µL)

# Anti Iba1, Rabbit Monoclonal Antibody (6A4), recombinant

| Code No. | Product name | Pkg. size | Storage |
|---|---|---|---|
| 012-28521 | Anti Iba1, Rabbit Monoclonal Antibody (6A4), recombinant | 20 µL | -20°C |
| 018-28523 | | 100 µL | |

## Product Summary

| | |
|---|---|
| Reactivity | Mouse, rat (not studied in other species) |
| Clonality | Monoclonal (Clone No. 6A4) |
| Host | Rabbit |
| Conjugate | Unconjugated |
| Concentration | Described on the label |

## Product Details

| | |
|---|---|
| Source | CHO-Spica cell derived antibody |
| Immunogen | Synthetic peptide corresponding to the C-terminus of Iba1 |
| Purity | Protein A affinity chromatography |
| Isotype | IgG |
| Form | Liquid |
| Preservative | 0.05% Sodium azide |
| Buffer | PBS with 50% glycerol |

## Application

Immunohistochemistry (frozen section) 1:200 - 10,000

* The optimal dilutions/concentrations should be determined by each laboratory.

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## Recommend Protocol

### Step 1. Tissue preparation

1. The animal (mouse or rat) should be fixed by perfusing with 4% paraformaldehyde-PBS under the deep anesthesia.
2. After dissection the tissue, sink the tissue in 4% paraformaldehyde-PBS for post-fixation, following to 30% sucrose/ 4% paraformaldehyde-PBS, respectively.
   ∗Sink the tissue until falling-down on the bottom of tube.
3. Mount the tissue with sectioning compound and freeze it completely.
4. Prepare a 20-50 μm thick of frozen section using the cryostat and mount the slice on the pre-coated slide glass for IHC.

### Step 2. Blocking and Permeabilization

1. Rinse the section several times with PBS for removing the sectioning compound.
2. Block the section by Blocking solution (1% animal serum, 2% BSA and 0.3% TritonX-100 in PBS) for 2 hours at room temperature.

### Step 3. Antibody staining

1. Incubate the section with primary antibody solution (Anti Iba1, Rabbit Monoclonal Antibody (6A4), recombinant, 1000 times dilution in Blocking solution) at 4℃ over night.
2. Wash the section three times with 0.3% TritonX-100 in PBS for 5 min.
3. Incubate the section with secondary antibody solution (i.e. fluorescent dye-conjugated anti-rabbit IgG, appropriatedilution in Blocking solution) for 2 hours RT.
4. Wash the section three times with 0.3% TritonX-100 in PBS for 5 min.

### Optional: Double or nuclear staining

(a) Double staining

- Prepare the different primary and secondary antibodies than those used in “Step 3” and repeat “Step 3”.
  ∗You must prepare a source of primary antibody that is different from the one used in “Antibody staining”.

(b) Nuclear stain

- Prepare DNA binding dye such as DAPI (i.e. code No. 342-07431). The staining protocol follows instruction manual of each dye.

## Step 4. Mounting and Detection

1. Rinse the section with ddH2O quickly, and snap-off the slide.
2. Absorb remaining ddH2O with paper and drop anti-fade mounding medium, then place a coverslip on the section.
3. Observe the section image by fluorescent microscopy or confocal microscopy with appropriate filter set.



**富士胶片和光（广州）贸易有限公司**
广州市越秀区先烈中路69号东山广场30楼
3002-3003室
北京 Tel：13611333218
上海 Tel：021 62884751
广州 Tel：020 87326381
香港 Tel：852 27999019
询价：wkgz.info@fujifilm.com
官网：labchem.fujifilm-wako.com.cn

官方微信

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