**Data Sheet**

<table>
<thead>
<tr>
<th>Reconstitution/Storage</th>
<th>50 µg purified IgY, lyophilized. Ovalbumin was added for stabilization. For reconstitution add 50 µl H₂O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use. Before storing at -20°C add 1 vol of glycerol.</th>
</tr>
</thead>
</table>
| Applications           | WB: not recommended  
                          IP: not tested yet  
                          IHC: 1 : 500  
                          IHC-P/FFPE: 1 : 500 |
| Immunogen              | Synthetic peptide corresponding to AA 134 to 147 from rat IBA1 (UniProt Id: P55009) |
| Reactivity             | Reacts with: rat (P55009), mouse (O70200). Other species not tested yet. |
| Specificity            | Specific for IBA 1. |
| matching control       | 234-0P |

**Selected References SYSY Antibodies**

Genetically induced brain inflammation by Cnp deletion transiently benefits from microglia depletion.

CYP46A1 Activation by Efavirenz Leads to Behavioral Improvement without Significant Changes in Amyloid Plaque Load in the Brain of SasakiAPD Mice.

**Selected General References**

Morphological and ultrastructural features of Iba1-immunolabeled microglial cells in the hippocampal dentate gyrus.

Reduction of Iba1-expressing microglial process density in the hippocampus following electroconvulsive shock.

A comparison of spinal Iba1 and GFAP expression in rodent models of acute and chronic pain.

Expression of Iba1 protein in microglial cells of zitter mutant rat.

Visualization of microglia in living tissues using Iba1-EGFP transgenic mice.

Microglia/macroage-specific protein Iba1 binds to fimbrin and enhances its actin-bundling activity.

Intracellular signaling in M-CSF-induced microglia activation: role of Iba1.

Macrophage/microglia-specific protein Iba1 enhances membrane ruffling and Rac activation via phospholipase C-gamma-dependent pathway.

Iba1 is an actin-cross-linking protein in macrophages/microglia.

Spermatid-specific expression of Iba1, an ionized calcium binding adapter molecule-1, in rat testis.

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**TO BE USED IN VITRO / FOR RESEARCH ONLY**

**NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS**

Ionized calcium-binding adaptor molecule 1 (IBA 1) or allograft Inflammatory factor 1 (AIF 1) is an EF hand calcium binding protein which is expressed selectively in microglia/macrophages. Microglia are the smallest of the glial cell types in the central nervous system with cell bodies of only 2-5 µm in diameter. IBA 1 expression has been suggested to be associated with the neuroinflammatory response and with transplant rejection.