Mouse Anti-Human GFAP

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Format</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>12075-01</td>
<td>Purified (UNLB)</td>
<td>0.5 mg</td>
</tr>
<tr>
<td>12075-05</td>
<td>Horseradish Peroxidase (HRP)</td>
<td>1.0 mL</td>
</tr>
<tr>
<td>12075-08</td>
<td>Biotin (BIOT)</td>
<td>0.5 mg</td>
</tr>
<tr>
<td>12075-12</td>
<td>Cyanine 3 (CY3)</td>
<td>0.5 mg</td>
</tr>
</tbody>
</table>

**Overview**

Clone: SB61b  
Isotype: Mouse (BALB/c) IgG2b  
Immunogen: Recombinant human GFAP  
Specificity: Human/Mouse GFAP  
Alternate Name(s): Glial fibrillary acidic protein, intermediate filament protein

**Description**

Glial fibrillary acid protein (GFAP) is a member of the type III intermediate filament family of proteins. GFAP is heavily expressed in astrocytes and certain other astroglia in the central nervous system, in satellite cells in peripheral ganglia, and in non-myelinating Schwann cells in peripheral nerves. It is closely related to its non-epithelial family members, vimentin, desmin, and peripherin, which are all involved in the structure and functions of the cell’s cytoskeleton. GFAP is thought to help to maintain astrocyte mechanical strength, as well as the shape of cell; however, its precise function remains poorly understood. In adults, GFAP levels increase in response to the proliferation of astrocytes associated with Alzheimer’s disease, epilepsy, and multiple sclerosis. Antibodies specific for GFAP are useful as markers of astrocytic cells and neural stem cells as well as for distinguishing neoplasms of astrocytic origin from other neoplasms in the central nervous system.

**Applications**

ICC – Quality tested  
IHC-FS – Reported in literature  
WB  
ELISA-Detection

Note – May be paired with the purified clone SB61a (SB Cat. No. 12070-01) in a sandwich ELISA

**Working Dilutions**

<table>
<thead>
<tr>
<th><strong>Immunocytochemistry</strong></th>
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<tbody>
<tr>
<td>Purified (UNLB) antibody</td>
<td>≤ 5 μg/mL</td>
</tr>
<tr>
<td>BIOT conjugate</td>
<td>≤ 5 μg/mL</td>
</tr>
<tr>
<td>HRP conjugate</td>
<td>1:100 – 1:400</td>
</tr>
<tr>
<td>CY3 conjugate</td>
<td>≤ 1 μg/mL</td>
</tr>
</tbody>
</table>

Other Applications: Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.
Handling and Storage

- The purified antibody (UNLB) is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. No preservatives or amine-containing buffer salts added. Store at 2-8°C.
- The horseradish peroxidase (HRP) conjugate is supplied as 1.0 mL of stock solution in 50% glycerol/50% PBS, pH 7.4. No preservative added. Store at 2-8°C or long-term at -20°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL PBS/NaN₃. Store at 2-8°C.
- The Cyanine 3 (CY3) conjugate is supplied as 0.5 mg in 1.0 mL PBS/NaN₃. Store at 2-8°C.
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific (M)SDS.

References

2. SouthernBiotech unpublished data (WB, ELISA)

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