Technical Data Sheet

Purified Mouse anti-α-Synuclein (pY125)

**Product Information**

<table>
<thead>
<tr>
<th>Material Number:</th>
<th>558246</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size:</td>
<td>0.1 mg</td>
</tr>
<tr>
<td>Concentration:</td>
<td>0.5 mg/ml</td>
</tr>
<tr>
<td>Clone:</td>
<td>I57-628</td>
</tr>
<tr>
<td>Immunogen:</td>
<td>Phosphorylated peptide corresponding to the region including the Tyrosine 125 residue of α-Synuclein</td>
</tr>
<tr>
<td>Isotype:</td>
<td>Mouse IgG2b, κ</td>
</tr>
<tr>
<td>Reactivity:</td>
<td>QC Testing: Human</td>
</tr>
<tr>
<td>Target MW:</td>
<td>19 kDa</td>
</tr>
<tr>
<td>Storage Buffer:</td>
<td>Aqueous buffered solution containing ≤0.09% sodium azide.</td>
</tr>
</tbody>
</table>

**Description**

The 140-amino-acid α-Synuclein protein is identical to the non-amyloid-β component precursor (NACP), a presynaptic protein involved in amyloidogenesis in Alzheimer's disease (AD). This protein is expressed in brain, primarily in presynaptic nerve terminals. Although the exact function of the Synucleins has not been determined, they have been linked to the prominent neurodegenerative disorders AD and Parkinson's disease. The Tyrosine 125 (Y125) residue of α-Synuclein plays an important role in stress-induced dimerization of the protein and is phosphorylated by Pyk/RAFTK via the Src-family kinases Fyn and c-Src.

The I57-628 antibody recognizes α-Synuclein phosphorylated at Y125.

**Preparation and Storage**

Store undiluted at 4°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

**Application Notes**

<table>
<thead>
<tr>
<th>Application</th>
<th>Routinely Tested</th>
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<tbody>
<tr>
<td>Western blot</td>
<td></td>
</tr>
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</table>

**Recommended Assay Procedure:**

**Western blot:** Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

**Suggested Companion Products**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>554002</td>
<td>HRP Goat Anti-Mouse Ig</td>
<td>1.0 ml</td>
<td>(none)</td>
</tr>
</tbody>
</table>

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558246 Rev. 3
Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
3. Please refer to wwwbdbiosciencescompharmingenprotocols for technical protocols.

References
Ellis CE, Schwartzberg PL, Grider TL, Fink DW, Nussbaum RL. α-Synuclein is phosphorylated by members of the Src family of protein-tyrosine kinases. J Biol Chem. 2001; 276(8):3879-3884.(Biology)