Anti-phospho-Dynamin [pSer\textsuperscript{778}]
Developed in Sheep, Affinity Isolated Antibody

Product Number P 2122

Product Description
Anti-phospho-Dynamin [pSer\textsuperscript{778}] is developed in sheep using a synthetic phosphopeptide corresponding to amino acid residues surrounding the phospho-Ser\textsuperscript{778} of dynamin as immunogen. The antiserum is affinity purified using sequential chromatography on Protein A and phospho- and non-phospho-peptide affinity columns. The antibody for phospho-Ser\textsuperscript{778} dynamin specifically recognizes the purified protein phosphorylated \textit{in vitro} by Cdk5 but not PKC.

The antibody detects human, mouse, rat phospho-Dynamin [pSer\textsuperscript{778}]. It has been used in immunoblotting applications.

Dynamin is a member of a group of nerve terminal proteins called dephosphins that regulate synaptic vesicle endocytosis. Cyclin dependent protein kinase 5 phosphorylates dynamin at Ser\textsuperscript{774} and Ser\textsuperscript{778} that are the phosphorylation sites on dynamin phosphorylated \textit{in vivo}. Phosphorylation of these sites on dynamin is thought to play a key role in synaptic vesicle trafficking.

Reagent
Anti-phospho-Dynamin [pSer\textsuperscript{778}] is provided in 10 mM HEPES, pH 7.5, 150 mM NaCl, 100 µg/ml BSA and 50% glycerol.

Storage/Stability
Store at −20 °C. Upon initial thawing freeze the solution in working aliquots for extended storage. Avoid repeated freezing and thawing to prevent denaturing the antibody. Do not store in frost-free freezers. Working dilution samples should be discarded if not used within 12 hours. The antibody is stable for at least 12 months when stored appropriately.

Product Profile
The supplied reagent is sufficient for 10 blots.

A recommended working dilution of 1:1000 is determined by immunoblotting using rat brain synaptosomal lysate.

Results

The immunoblot of 10 µg of rat brain synaptosomal lysate showing specific immunolabeling of dynamin phosphorylated at Ser\textsuperscript{778}. The labeling by the antibody was specifically blocked by the Ser\textsuperscript{778} phosphopeptide used as antigen. The corresponding non-phosphopeptide did not block the immunolabeling (not shown).

References