

## ARG52270 anti-Dynamin phospho (Ser778) antibody

Package: 50 µl  
Store at: -20°C

### Summary

|                     |   |
|---------------------|---|
| Product Description | Sheep Polyclonal antibody recognizes Dynamin phospho (Ser778)                                       |
| Tested Reactivity   | Rat   |
| Predict Reactivity  | Hu, Ms, Bov, Chk, Dog   |
| Tested Application  | WB  |
| Host                | Sheep   |
| Clonality           | Polyclonal  |
| Isotype             | IgG   |
| Target Name         | Dynamin   |
| Species             | Rat   |
| Immunogen           | Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser778 conjugated to KLH |
| Conjugation         | Un-conjugated   |
| Alternate Names     | DNM; EC 3.6.5.5; Dynamin-1; EIEE31  |

### Application Instructions

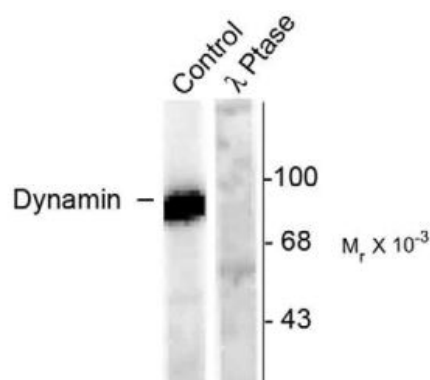
| Application table | <table> <tr> <th>Application</th><th>Dilution</th></tr> <tr> <td>WB</td><td>1:1,000</td></tr> </table>  | Application | Dilution | WB | 1:1,000 |
|-------------------|---|-------------|----------|----|---------|
| Application       | Dilution  |             |          |    |         |
| WB                | 1:1,000   |             |          |    |         |
| Application Note  | <p>Specific for the ~95k dynamin protein phosphorylated at Ser778. Labels the purified protein phosphorylated in vitro by cdk5 but not by PKC. Does not cross react with other purified substrates of cdk5 (e.g. amphiphysin and synapsin). Immunolabeling is blocked by λ-phosphatase treatment.</p> <p>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.</p> |             |          |    |         |

### Properties

|                     |   |
|---------------------|---|
| Form                | Liquid  |
| Purification        | Affinity Purified   |
| Buffer              | 10 mM HEPES (pH 7.5), 150 mM NaCl, 0.1 mg/ml BSA and 50% Glycerol   |
| Stabilizer          | 0.1 mg/ml BSA, 50% Glycerol   |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note                | For laboratory research only, not for drug, diagnostic or other use.  |

|                |  |
|----------------|--|
| Database links | <a href="#">GeneID: 140694 Rat</a><br><a href="#">Swiss-port # P21575 Rat</a>  |
| Gene Symbol    | DNM1   |
| Gene Full Name | dynamin 1  |
| Background     | Dynamin is a member of a group of nerve terminal proteins called dephosphins that regulate synaptic vesicle endocytosis (Cousin et al., 2001; Graham et al., 2002; Tsuboi et al., 2002). Cyclin dependent protein kinase 5 phosphorylates dynamin at Ser774 and Ser778 that are the phosphorylation sites on dynamin phosphorylated in vivo (Tan et al., 2003). Phosphorylation of these sites on dynamin is thought to play a key role in synaptic vesicle trafficking. |
| Research Area  | Neuroscience antibody; Signaling Transduction antibody   |
| Calculated Mw  | 97 kDa   |

Images



ARG52270 anti-Dynamin phospho (Ser778) antibody WB image

Western blot: Rat hippocampal lysate stimulated with forskolin then stained with ARG52270 anti-Dynamin phospho (Ser778) antibody showing specific immunolabeling of the ~95k dynamin phosphorylated at Ser778 (Control). The phosphospecificity of this labeling is shown in the second lane (lambda-phosphatase: λ-Ptase). The blot is identical to the control except that it was incubated in λ-Ptase (1200 units for 30 min) before being exposed to the Anti-Ser778 dynamin. The immunolabeling is completely eliminated by treatment with λ-Ptase.