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## Phospho-Src Family (Tyr416) (D49G4) Rabbit mAb

**For Research Use Only. Not for Use in Diagnostic Procedures.**

|                                    |                                   |                                   |                        |                                      |  |   |
|------------------------------------|-----------------------------------|-----------------------------------|------------------------|--------------------------------------|--|---|
| <b>Applications:</b><br>W, W-S, IP | <b>Reactivity:</b><br>H M R Mk Dg | <b>Sensitivity:</b><br>Endogenous | <b>MW (kDa):</b><br>60 | <b>Source/Isotype:</b><br>Rabbit IgG | <b>UniProt ID:</b><br>#P07947, #P07948,<br>#P06239, #P08631,<br>#P12931, #P06241 | <b>Entrez-Gene Id:</b><br>7525, 4067, 3932,<br>3055, 6714, 2534 |
|------------------------------------|-----------------------------------|-----------------------------------|------------------------|--------------------------------------|--|---|

|                                  |   |   |
|----------------------------------|---|---|
| <b>Product Usage Information</b> | <b>Application</b><br>Western Blotting<br>Simple Western™<br>Immunoprecipitation  | <b>Dilution</b><br>1:1000<br>1:10 - 1:50<br>1:100 |
| <b>Storage</b>                   | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.<br><br>For a carrier free (BSA and azide free) version of this product see product #34069.   |   |
| <b>Specificity/Sensitivity</b>   | Phospho-Src Family (Tyr416) (D49G4) Rabbit mAb detects endogenous levels of Src only when phosphorylated at Tyr416. The antibody may cross-react with other Src family members (Lyn, Fyn, Lck, Yes and Hck) when phosphorylated at equivalent sites. It may cross react with overexpressed phosphorylated RTKs.   |   |
| <b>Source / Purification</b>     | Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr419 of human Src protein.  |   |
| <b>Background</b>                | The Src family of protein tyrosine kinases, which includes Src, Lyn, Fyn, Yes, Lck, Blk, and Hck, are important in the regulation of growth and differentiation of eukaryotic cells (1). Src activity is regulated by tyrosine phosphorylation at two sites, but with opposing effects. While phosphorylation at Tyr416 in the activation loop of the kinase domain upregulates enzyme activity, phosphorylation at Tyr530 in the carboxy-terminal tail by Csk renders the enzyme less active (2).  |   |
| <b>Background References</b>     | <ol style="list-style-type: none"> <li>1. Thomas, S.M. and Brugge, J.S. (1997) <i>Annu Rev Cell Dev Biol</i> 13, 513-609.</li> <li>2. Hunter, T. (1987) <i>Cell</i> 49, 1-4.</li> </ol>   |   |
| <b>Species Reactivity</b>        | Species reactivity is determined by testing in at least one approved application (e.g., western blot).  |   |
| <b>Western Blot Buffer</b>       | IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.  |   |
| <b>Applications Key</b>          | <b>W:</b> Western Blotting <b>W-S:</b> Simple Western™ <b>IP:</b> Immunoprecipitation   |   |
| <b>Cross-Reactivity Key</b>      | <b>H:</b> Human <b>M:</b> Mouse <b>R:</b> Rat <b>Mk:</b> Monkey <b>Dg:</b> Dog  |   |
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