Phospho-p90RSK (Thr573) Antibody

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

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**Product Usage Information**

**Application**
- Western Blotting
- Immunofluorescence (Immunocytochemistry)

**Dilution**
- 1:1000
- 1:400

**Storage**
Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

**Specificity / Sensitivity**
Phospho-p90RSK (Thr573) Antibody detects endogenous p90RSK protein only when phosphorylated at Thr573.

**Species predicted to react based on 100% sequence homology:**
Hamster, Chicken, Xenopus, Zebrafish

**Source / Purification**
Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr573 of human p90RSK. Antibodies are purified by protein A and peptide affinity chromatography.

**Background**
The 90 kDa ribosomal S6 kinases (RSK1-4) are a family of widely expressed Ser/Thr kinases characterized by two nonidentical, functional kinase domains (1) and a carboxy-terminal docking site for extracellular signal-regulated kinases (ERKs) (2). Several sites both within and outside of the RSK kinase domain, including Ser380, Thr359, Ser363, and Thr573, are important for kinase activation (3). RSK1-3 are activated via coordinated phosphorylation by MAPKs, autophosphorylation, and phosphoinositide-3-OH kinase (PI3K) in response to many growth factors, polypeptide hormones, and neurotransmitters (3).

**Background References**

**Species Reactivity**
Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**
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.

**Applications Key**
- WB: Western Blotting
- IF-IC: Immunofluorescence

**Cross-Reactivity Key**
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<tbody>
<tr>
<td>X: Xenopus</td>
<td>Z: zebrafish</td>
<td>B: bovine</td>
<td>Dg: dog</td>
<td>Pg: pig</td>
<td>Sc: S. cerevisiae</td>
<td>Ce: C. elegans</td>
<td>Hr: horse</td>
<td>GP: Guinea Pig</td>
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