



## Product Information

### Anti-phospho-Rsk1 (p90<sup>rsk</sup>) (phosphoserine 381)

Developed in Rabbit,  
Affinity Isolated Antibody

Product Number **R6525**

#### Product Description

Anti-phospho-Rsk1 (p90<sup>rsk</sup>) (phosphoserine 381) is developed in rabbit using a synthetic phospho-Ser381 peptide corresponding to residues around Ser381 of human p90<sup>rsk</sup> and conjugated to KLH, as immunogen. The antibody is affinity-purified using the protein A and peptide affinity chromatography.

Anti-phospho-Rsk1 (p90<sup>rsk</sup>) (phosphoserine 381) detects Rsk1 (p90<sup>rsk</sup>) only when phosphorylated at phosphoserine 381. This antibody reacts with human, rat and mouse and does not react with nonphosphorylated Rsk1. Anti-phospho-Rsk1 (p90<sup>rsk</sup>) may be used in immunoblotting, immunoprecipitation and immunocytochemistry.

Anti-phospho-Rsk1 (p90<sup>rsk</sup>) (phosphoserine 381) is a 90-kD ribosomal S6 kinase that lies immediately downstream of MAP kinase in the phorbol ester and growth factor signaling pathway.<sup>1, 2</sup> Anti-phospho-Rsk1 is activated by MAPK *in vitro* and *in vivo*<sup>3</sup> via phosphorylation. Several phosphorylation sites including Ser381 are important for its activation.<sup>4</sup>

#### Reagents

Anti-phospho-Rsk1 (p90<sup>rsk</sup>) (phosphoserine 381) is supplied as an affinity-isolated antibody in 10 mM sodium HEPES, pH 7.5, containing 150 mM sodium chloride, 100 µg/ml bovine serum albumin and 50% glycerol.

#### Storage/Stability

Store at 0° to -20°C. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

#### Product Profile

Recommended working dilution is 1:1,000 for immunoblotting (chemiluminescent) using an extract of TPA treated 293 cells.

For immunoblotting, incubate membrane with diluted antibody in 5% bovine serum albumin (BSA), 1X Tris buffered saline and 0.1% Tween-20 at 2-8°C with gentle shaking, overnight.

Recommended working dilution is 1:200 for immunoprecipitation.

Recommended working dilution is 1:2,000 for immunocytochemistry.

Note: In order to obtain best results in different techniques and preparations we recommend determining optimal working dilution by titration test.

#### References

1. Blenis, J., Proc. Natl. Acad. Sci. USA, **90**, 5889-5892 (1993).
2. Sturgill, T.W., et al., Nature, **334**, 715-718 (1988).
3. Lazar, D.F., et al., J. Biol. Chem., **270**, 27489-27494 (1995).
4. Dalby, N.K., et al., J. Biol. Chem., **273**, 1496-1505 (1998).

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