Store at -20C

## **RSK3 Antibody**



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Applications: I WB	Reactivity: H	<b>Sensitivity:</b> Transfected Only	<b>MW (kDa):</b> 90	<b>Source:</b> Rabbit	<b>UniProt ID:</b> #Q15349	Entrez-Gene Id 6196	
Product Usage Information	Ар	plication			Dilution		
	We	stern Blotting			1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensitiv	rity RSK3 Antibody detects transfected levels of RSK3 pro isoforms.				loes not cross-react with	the RSK1 or RSK2	
Source / Purification	resid	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro709 of human RSK3. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	char extra dom activ	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).					
	and ubiq Alte	Unlike other RSK isoforms, the N-terminal region of RSK3 contains a putative nuclear localization signal and the kinase translocates to the nucleus in serum-starved HeLa cells (4). RSK3 is expressed ubiquitously in human tissues and localizes to developing neural and sensory areas in the mouse (5). Altered expression and mutations in the corresponding gene are associated with breast cancer and in some cancer cell lines, suggesting a possible role for this kinase as a tumor suppressor (6).					
Background Referen	1. Fisher, T.L. and Blenis, J. (1996) <i>Mol Cell Biol</i> 16, 1212-9. 2. Smith. J.A. et al. (1999) <i>J. Biol Chem</i> 274, 2893-8.						

2. Smith, J.A. et al. (1999) J Biol Chem 274, 2893-8.

3. Dalby, K.N. et al. (1998) J Biol Chem 273, 1496-505.

4. Zhao, Y. et al. (1995) Mol Cell Biol 15, 4353-63.

5. Zeniou, M. et al. (2002) Hum Mol Genet 11, 2929-40.

6. Bignone, P.A. et al. (2007) Oncogene 26, 683-700.

**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

**Cross-Reactivity Key** 

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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