

#3794 Store at -20°C

SKAR α/β Antibody


Cell Signaling
TECHNOLOGY®

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk	Endogenous	46, 43	Rabbit	#Q9BY77	84271

Product Usage Information	Application Western Blotting	Dilution 1:1000
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	SKAR α/β Antibody detects endogenous levels of total SKAR protein. The antibody recognizes both the α and the β isoforms.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino terminal residues of human SKAR. Antibodies are purified using protein A and peptide affinity chromatography.	
Background	p70 S6 kinase is a mitogen activated Ser/Thr protein kinase downstream of phosphoinositide-3 kinase (PI3K) and the target of rapamycin, FRAP/mTOR. p70 S6 kinase is required for cell growth and cell cycle progression (1,2). SKAR is a recently discovered substrate of S6K1. SKAR exists in two isoforms, α and β , the latter having a 29 amino acid truncation. Phosphorylation of SKAR is mitogen-induced and sensitive to rapamycin. Reduction in SKAR protein levels results in decreased cell size, further implicating SKAR in cell growth control (3).	
Background References	1. Pullen, N. and Thomas, G. (1997) <i>FEBS Lett</i> 410, 78-82. 2. Dufner, A. and Thomas, G. (1999) <i>Exp Cell Res</i> 253, 100-9. 3. Richardson, C.J. et al. (2004) <i>Curr Biol</i> 14, 1540-9.	

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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