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#3794

## SKAR $\alpha/\beta$ Antibody

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	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  $\mu$ g/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

### Specificity/Sensitivity

SKAR $\alpha/\beta$  Antibody detects endogenous levels of total SKAR protein. The antibody recognizes both the  $\alpha$  and the  $\beta$  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,  $\alpha$  and  $\beta$ , 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) *FEBS Lett* 410, 78-82.
2. Dufner, A. and Thomas, G. (1999) *Exp Cell Res* 253, 100-9.
3. Richardson, C.J. et al. (2004) *Curr Biol* 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

**W:** Western Blotting

### Cross-Reactivity Key

**H:** Human **M:** Mouse **R:** Rat **Mk:** Monkey

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