

#3235 Store at -20°C

SKAR Antibody

100 µl
(10 western blots)

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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Entrez-Gene ID # 84271
Swiss-Prot Acc. # Q9BY77

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W Endogenous	H, M, R, Mk	46 kDa	Rabbit**

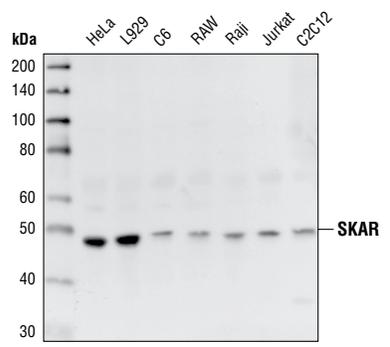
Background: p70 S6 kinase is a mitogen activated Ser/Thr protein kinase downstream of phosphoinositide-3 kinase (PI3K) and the target of rapamycin, FRAP/mTOR. p70S6 kinase is required for cell growth and cell cycle progression (1,2). SKAR is a recently discovered substrate of S6K1. Two isoforms, α and β , the latter having a 29 amino acid C-terminal truncation, were discovered. Phosphorylation of SKAR is mitogen activated and sensitive to rapamycin. Reduction in SKAR protein levels results in decreased cell size, further implicating SKAR in cell growth control (3).

Specificity/Sensitivity: SKAR Antibody detects endogenous levels of total SKAR protein.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of human SKAR alpha. Antibodies are purified using protein A and peptide affinity chromatography.

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.



Western blot analysis of extracts from various cell lines, using SKAR Antibody.

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.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting 1:1000

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide

Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.