

Store at -20°C  
#5439

## SKAR $\alpha/\beta$ (D65E8) XP® Rabbit mAb



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

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

<b>Product Usage Information</b>	<b>Application</b> Western Blotting Immunofluorescence (Immunocytochemistry)	<b>Dilution</b> 1:1000 1:3200
<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
<b>Specificity / Sensitivity</b>	SKAR $\alpha/\beta$ (D65E8) XP® Rabbit mAb detects endogenous levels of total SKAR protein, $\alpha$ and $\beta$ isoforms. By western blot, the antibody detects an approximately 21 kDa band of unknown origin in all primate cell types tested.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the amino terminus of human SKAR.	
<b>Background</b>	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).	
<b>Background References</b>	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.	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry)
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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