

SKAR α/β (D65E8) XP[®] Rabbit mAb

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

Product Usage Information**Application**

Western Blotting
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:3200

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C . Do not aliquot the antibody.

Specificity/Sensitivity

SKAR α/β (D65E8) XP[®] Rabbit mAb detects endogenous levels of total SKAR protein, α and β isoforms. By western blot, the antibody detects an approximately 21 kDa band of unknown origin in all primate cell types tested.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the amino terminus of human SKAR.

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) *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 **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

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

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