

#12892 Store at -20°C

SCAI (D9A7Y) 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, IP	H M R Mk	Endogenous	60	Rabbit IgG	#Q8N9R8	286205

Product Usage Information

Application

Western Blotting

Dilution

1:1000

Immunoprecipitation

1:50

Storage

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.

Specificity / Sensitivity

SCAI (D9A7Y) Rabbit mAb recognizes endogenous levels of total SCAI protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human SCAI protein.

Background

The serum response factor (SRF) is a ubiquitous protein that modulates transcription of genes containing serum response elements (SRE) at their promoters. SRF regulates cellular processes such as cell proliferation and cytoskeletal signaling in conjunction with a variety of cofactors (1-3).

Suppressor of cancer cell invasion (SCAI) is a highly conserved transcriptional cofactor that inhibits the activity of myocardin-related transcription factor (MRTF) family members MAL (MRTF-A), myocardin and OTT-MAL (4,5). SCAI controls the expression of integrin β 1 and regulates cell migration and invasion *in vitro* (4). SCAI has also been shown to play a role in transcriptional regulation in neurons by regulating dendritic morphology through inhibition of the megakaryoblastic leukemia (MKL) family of transcription cofactors (6). Research studies have implicated SCAI in the regulation of the epithelial-to-mesenchymal transition (EMT) as well as in renal fibrosis (7).

Background References

1. Pipes, G.C. et al. (2006) *Genes Dev* 20, 1545-56.
2. Posern, G. and Treisman, R. (2006) *Trends Cell Biol* 16, 588-96.
3. Olson, E.N. and Nordheim, A. (2010) *Nat Rev Mol Cell Biol* 11, 353-65.
4. Brandt, D.T. et al. (2009) *Nat Cell Biol* 11, 557-68.
5. Brandt, D.T. et al. (2009) *Cell Cycle* 8, 2523-7.
6. Ishikawa, M. et al. (2010) *J Biol Chem* 285, 32734-43.
7. Fintha, A. et al. (2013) *Am J Pathol* 182, 388-400.

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation

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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