

Suppressin (K-18): sc-69012

BACKGROUND

Suppressin, also known as DEAF1 (deformed epidermal autoregulatory factor 1), SPN, NUDR (nuclear DEAF-1-related transcriptional regulator), or ZMYND5 (zinc finger MYND domain-containing protein 5), is a transcription factor required for embryonic development. Suppressin contains one SAND domain and one C-terminal MYND-type zinc finger. It interacts with LMO4 and CLIM-2, suggesting that it plays a role mediating cell fate and embryonic pattern formation. Suppressin is expressed in a variety of tissues and localizes to the nucleus. Several isoforms exist due to alternative splicing and, depending on the isoform, Suppressin is secreted in some cell types. Secreted Suppressin can function to inhibit cell proliferation, arresting cells in the G₀ or G₁ phase. Mutations in the gene encoding Suppressin may result in a growth advantage leading to the development and progression of neoplasia. This suggests that Suppressin is a potential target for cancer therapy.

REFERENCES

- Huggenvik, J.I., et al. 1998. Characterization of a nuclear deformed epidermal autoregulatory factor-1 (DEAF-1)-related (NUDR) transcriptional regulator protein. *Mol. Endocrinol.* 12: 1619-1639.
- Michelson, R.J., et al. 1999. Nuclear DEAF-1-related (NUDR) protein contains a novel DNA binding domain and represses transcription of the heterogeneous nuclear ribonucleoprotein A2/B1 promoter. *J. Biol. Chem.* 274: 30510-30519.
- Bottomley, M.J., et al. 2001. The SAND domain structure defines a novel DNA-binding fold in transcriptional regulation. *Nat. Struct. Biol.* 8: 626-633.
- Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 602635. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
- Lemondé, S., et al. 2003. Impaired repression at a 5-hydroxytryptamine 1A receptor gene polymorphism associated with major depression and suicide. *J. Neurosci.* 23: 8788-8799.

CHROMOSOMAL LOCATION

Genetic locus: DEAF1 (human) mapping to 11p15.5; Deaf1 (mouse) mapping to 7 F5.

SOURCE

Suppressin (K-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Suppressin of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-69012 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

Suppressin (K-18) is recommended for detection of Suppressin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

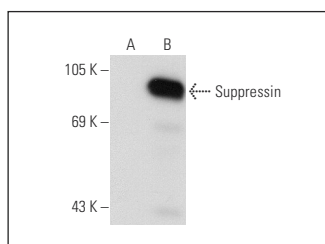
Suppressin (K-18) is also recommended for detection of Suppressin in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Suppressin siRNA (h): sc-76613, Suppressin siRNA (m): sc-76614, Suppressin shRNA Plasmid (h): sc-76613-SH, Suppressin shRNA Plasmid (m): sc-76614-SH, Suppressin shRNA (h) Lentiviral Particles: sc-76613-V and Suppressin shRNA (m) Lentiviral Particles: sc-76614-V.

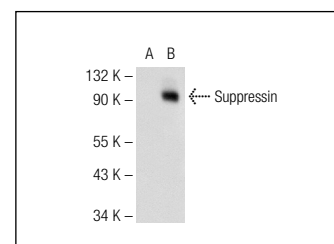
Molecular Weight of Suppressin: 90 kDa.

Positive Controls: Suppressin (h): 293T Lysate: sc-178000 or Jurkat whole cell lysate: sc-2204.

DATA



Suppressin (K-18): sc-69012. Western blot analysis of Suppressin expression in non-transfected: sc-117752 (A) and human Suppressin transfected: sc-178000 (B) 293T whole cell lysates.



Suppressin (K-18): sc-69012. Western blot analysis of Suppressin expression in non-transfected: sc-117752 (A) and human Suppressin transfected: sc-178001 (B) 293T whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **Suppressin (E-5): sc-514180** or **Suppressin (C-8): sc-398387**, our highly recommended monoclonal alternatives to Suppressin (K-18).