# Suppressin (A-7): sc-376477



The Power to Overtion

## **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  $G_0$  or  $G_1$  phase. Mutations in the gene encoding Suppressin may result in a growth advantage leading to the development and progression of neoplasia. This suggest that Supressin 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.
- 4. 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/
- Lemonde, 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 (A-7) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 243-279 within an internal region of Suppressin of human origin.

## **PRODUCT**

Each vial contains 200  $\mu g$   $lgG_1$  kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-376477 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

#### **APPLICATIONS**

Suppressin (A-7) is recommended for detection of Suppressin of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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 (A-7) is also recommended for detection of Suppressin in additional species, including equine, canine, bovine and porcine.

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.

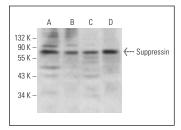
Molecular Weight of Suppressin: 90 kDa.

Positive Controls: SH-SY5Y cell lysate: sc-3812, NIH/3T3 whole cell lysate: sc-2210 or HeLa whole cell lysate: sc-2200.

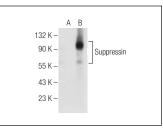
## **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-lgG $\kappa$  BP-FITC: sc-516140 or m-lgG $\kappa$  BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

## DATA







Suppressin (A-7): sc-376477. Western blot analysis of Suppressin expression in non-transfected: sc-117752 (A) and human Suppressin transfected: sc-178001 (B) 2937 whole cell Ivsates.

# **STORAGE**

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

## **RESEARCH USE**

For research use only, not for use in diagnostic procedures

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