

ZNF398 (D-15): sc-132177

BACKGROUND

Zinc finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. The majority of zinc finger proteins contain a Krüppel-type DNA binding domain and a KRAB domain, which is thought to interact with KAP1, thereby recruiting histone modifying proteins. Zinc finger protein 398 (ZNF398), also known as zinc finger DNA-binding protein p52/p71 or ZER6, is a 642 amino acid member of the Krüppel C₂H₂-type zinc finger protein family. Localized to the nucleus, ZNF627 contains nine C₂H₂-type zinc fingers and one KRAB domain through which it is thought to be involved in DNA-binding and transcriptional regulation. Existing as two isoforms produced by alternative splicing, ZNF398 is induced by ER α .

REFERENCES

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2. Berg, J.M. 1988. Proposed structure for the zinc-binding domains from transcription factor IIIA and related proteins. *Proc. Natl. Acad. Sci. USA* 85: 99-102.
3. Thiesen, H.J. 1990. Multiple genes encoding zinc finger domains are expressed in human T cells. *New Biol.* 2: 363-374.
4. Rosenfeld, R. and Margalit, H. 1993. Zinc fingers: conserved properties that can distinguish between spurious and actual DNA-binding motifs. *J. Biomol. Struct. Dyn.* 11: 557-570.
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CHROMOSOMAL LOCATION

Genetic locus: ZNF398 (human) mapping to 7q36.1; Zfp398 (mouse) mapping to 6 B2.3.

SOURCE

ZNF398 (D-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ZNF398 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-132176 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-132176 X, 200 μ g/0.1 ml.

APPLICATIONS

ZNF398 (D-15) is recommended for detection of ZNF398 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with other ZNF family member.

ZNF398 (D-15) is also recommended for detection of ZNF398 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for ZNF398 siRNA (h): sc-89890, ZNF398 siRNA (m): sc-155709, ZNF398 shRNA Plasmid (h): sc-89890-SH, ZNF398 shRNA Plasmid (m): sc-155709-SH, ZNF398 shRNA (h) Lentiviral Particles: sc-89890-V and ZNF398 shRNA (m) Lentiviral Particles: sc-155709-V.

Molecular Weight of ZNF398: 71 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.

PROTOCOLS

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