

ZNF6 (N-18): sc-324687

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. ZNF6, also known as ZNF711 (zinc finger protein 711), MRX97 or CMPX1, is a 761 amino acid protein that contains 12 C₂H₂-type zinc fingers and belongs to the Krüppel C₂H₂-type zinc-finger protein family. Localizing to the nucleus, ZNF6 is expressed in neural tissues and becomes phosphorylated upon DNA damage. Acting as a transcription regulator required for proper brain development, defects to ZNF6 have been linked to mental retardation X-linked ZNF711-related (MRXZ). Existing as three alternatively spliced isoforms, the gene encoding ZNF6 maps to human chromosome Xq21.1.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ZNF711 (human) mapping to Xq21.1; Zfp711 (mouse) mapping to X E1.

SOURCE

ZNF6 (N-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of ZNF6 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-324687 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ZNF6 (N-18) is recommended for detection of ZNF6 of human origin and ZNF711 of mouse 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 zinc finger proteins.

ZNF6 (N-18) is also recommended for detection of ZNF6 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for ZNF6 siRNA (h): sc-91223, ZNF6 shRNA Plasmid (h): sc-91223-SH and ZNF6 shRNA (h) Lentiviral Particles: sc-91223-V.

Molecular Weight of ZNF6: 86 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.