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. ZFP64 (zinc finger protein 64), also known as ZNF338, is a 681 amino acid homolog of the mouse Zfp64 protein and is a member of the Krüppel C2H2-type zinc-finger family. Localized to the nucleus, ZFP64 contains nine C2H2-type zinc fingers and is thought to be involved in transcriptional regulation. Four isoforms of ZFP64 exist due to alternative splicing events.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: ZFP64 (human) mapping to 20q13.2; Zfp64 (mouse) mapping to 2H3.

SOURCE

ZFP64 (F-3) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 89-125 near the N-terminus of ZFP64 of human origin.

PRODUCT

Each vial contains 200 µg IgM 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-374263 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

STORAGE

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

APPLICATIONS

ZFP64 (F-3) is recommended for detection of ZFP64 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for ZFP64 siRNA (h): sc-63241, ZFP64 siRNA (m): sc-63242, ZFP64 shRNA Plasmid (h): sc-63241-SH, ZFP64 shRNA Plasmid (m): sc-63242-SH, ZFP64 shRNA (h) Lentiviral Particles: sc-63241-V and ZFP64 shRNA (m) Lentiviral Particles: sc-63242-V.

Molecular Weight of ZFP64: 75 kDa.

Positive Controls: ZFP64 (m): 293T Lysate: sc-127809.

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