

OTK18 (E-9): sc-393751

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 175 (ZNF175), also known as OTK18, is a 711 amino acid member of the Krüppel C₂H₂-type zinc-finger protein family. Localized both to the nucleus and cytosol, ZNF175 contains 15 C₂H₂-type zinc fingers and one KRAB domain. Induced by HIV-1 infection, ZNF175 is thought to be an HIV-1-inducible transcriptional suppressor.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ZNF175 (human) mapping to 19q13.41.

SOURCE

OTK18 (E-9) is a mouse monoclonal antibody raised against amino acids 171-283 mapping within an internal region of OTK18 of human origin.

PRODUCT

Each vial contains 200 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

OTK18 (E-9) is recommended for detection of OTK18 of 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 OTK18 siRNA (h): sc-97677, OTK18 shRNA Plasmid (h): sc-97677-SH and OTK18 shRNA (h) Lentiviral Particles: sc-97677-V.

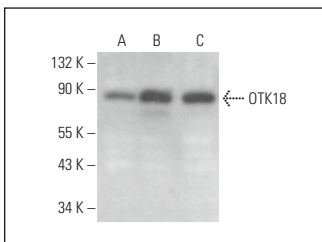
Molecular Weight of OTK18: 82 kDa.

Positive Controls: HEL 92.1.7 cell lysate: sc-2270, Jurkat whole cell lysate: sc-2204 or MEG-01 cell lysate: sc-2283.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ 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-IgGκ BP-FITC: sc-516140 or m-IgGκ 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



OTK18 (E-9): sc-393751. Western blot analysis of OTK18 expression in Jurkat (A), MEG-01 (B) and HEL 92.1.7 (C) whole cell lysates.

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.