

ZNF746 (C-11): sc-518212

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. ZNF746 (zinc finger protein 746), also known as PARIS (Parkin-interacting substrate) is a 644 amino acid cytoplasmic and nuclear protein that belongs to the Krüppel C₂H₂-type zinc-finger protein family. Existing as three alternatively spliced isoforms, ZNF746 functions as a transcription repressor and interacts with Parkin. The gene encoding ZNF746 maps to human chromosome 7q36.1 and mouse chromosome 6 B2.3.

REFERENCES

1. Bray, P., et al. 1991. Characterization and mapping of human genes encoding zinc finger proteins. *Proc. Natl. Acad. Sci. USA* 88: 9563-9567.
2. Aubry, M., et al. 1992. Cloning of six new genes with zinc finger motifs mapping to short and long arms of human acrocentric chromosome 22 (p and q11.2). *Genomics* 13: 641-648.
3. Lichter, P., et al. 1992. Clustering of C2-H2 zinc finger motif sequences within telomeric and fragile site regions of human chromosomes. *Genomics* 13: 999-1007.
4. Urrutia, R. 2003. KRAB-containing zinc-finger repressor proteins. *Genome Biol.* 4: 231.
5. Huntley, S., et al. 2006. A comprehensive catalog of human KRAB-associated zinc finger genes: insights into the evolutionary history of a large family of transcriptional repressors. *Genome Res.* 16: 669-677.
6. Tian, C.Y., et al. 2006. Progress in the study of KRAB zinc finger protein. *Yi Chuan* 28: 1451-1456.
7. Shin, J.H., et al. 2011. PARIS (ZNF746) repression of PGC-1 α contributes to neurodegeneration in Parkinson's disease. *Cell* 144: 689-702.

CHROMOSOMAL LOCATION

Genetic locus: ZNF746 (human) mapping to 7q36.1.

SOURCE

ZNF746 (C-11) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 340-363 of ZNF746 of human origin.

PRODUCT

Each vial contains 200 μ g IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

ZNF746 (C-11) is available conjugated to agarose (sc-518212 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-518212 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-518212 PE), fluorescein (sc-518212 FITC), Alexa Fluor[®] 488 (sc-518212 AF488), Alexa Fluor[®] 546 (sc-518212 AF546), Alexa Fluor[®] 594 (sc-518212 AF594) or Alexa Fluor[®] 647 (sc-518212 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-518212 AF680) or Alexa Fluor[®] 790 (sc-518212 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

ZNF746 (C-11) is recommended for detection of ZNF746 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ 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).

Suitable for use as control antibody for ZNF746 siRNA (h): sc-89806, ZNF746 shRNA Plasmid (h): sc-89806-SH and ZNF746 shRNA (h) Lentiviral Particles: sc-89806-V.

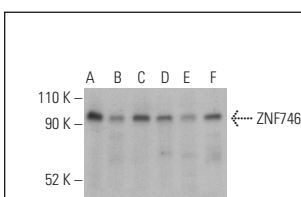
Molecular Weight of ZNF746 isoforms: 69/48 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203, HT-1080 whole cell lysate: sc-364183 or HEK293T whole cell lysate: sc-45137.

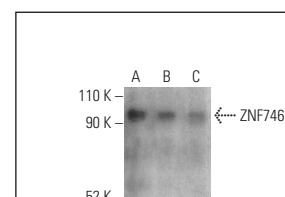
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ 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-IgG κ BP-FITC: sc-516140 or m-IgG κ 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



ZNF746 (C-11): sc-518212. Western blot analysis of ZNF746 expression in K-562 (A), SH-SY5Y (B), HT-1080 (C), HCT-116 (D), NTERA-2 cl.D1 (E) and HEK293T (F) whole cell lysates.



ZNF746 (C-11): sc-518212. Western blot analysis of ZNF746 expression in K-562 (A), HT-1080 (B) and HCT-116 (C) whole cell lysates. Detection reagent used: m-IgG₁ BP-HRP: sc-525408.

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 for detailed protocols and support products.

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