

KLF16 (h): 293T Lysate: sc-174472

BACKGROUND

Krüppel-like factors (KLFs) comprise a family of evolutionarily conserved zinc finger-containing transcription factors with diverse regulatory functions in cell growth, proliferation, differentiation and embryogenesis. Individual members of the Sp1-like/KLF family can function either as activators or repressors, depending on which promoter they bind and which coregulators they interact with. KLF16 (Krüppel-like factor 16), also known as BTEB4, DRRF (dopamine receptor-regulating factor) or NSLP2, is a 252 amino acid protein that contains three C₂H₂-type zinc fingers and belongs to the KLF transcription factor family. Localized to the nucleus and expressed at high levels in brain, KLF16 functions as a transcription factor that binds specifically to GT and GC boxes, displacing the transcription factors Sp1 and Sp3 and effectively modulating dopaminergic transmission in the brain.

REFERENCES

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8. Gutiérrez-Aguilar, R., et al. 2007. Analysis of KLF transcription factor family gene variants in type 2 diabetes. *BMC Med. Genet.* 8: 53.
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STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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

CHROMOSOMAL LOCATION

Genetic locus: KLF16 (human) mapping to 19p13.3.

PRODUCT

KLF16 (h): 293T Lysate represents a lysate of human KLF16 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

KLF16 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive KLF16 antibodies. Recommended use: 10-20 μ l per lane.

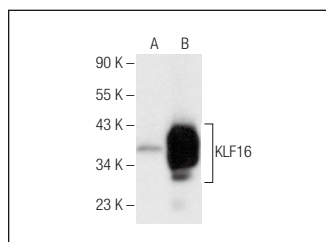
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

KLF16 (F-4): sc-377519 is recommended as a positive control antibody for Western Blot analysis of enhanced human KLF16 expression in KLF16 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

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.

DATA



KLF16 (F-4): sc-377519. Western blot analysis of KLF16 expression in non-transfected: sc-117752 (A) and human KLF16 transfected: sc-174472 (B) 293T whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.