

FGF-15 (m): 293T Lysate: sc-126850

BACKGROUND

Acidic and basic fibroblast growth factors (FGFs) are members of a family of multifunctional polypeptide growth factors that stimulate proliferation of cells of mesenchymal, epithelial and neuroectodermal origin. Like other growth factors, FGFs act by binding and activating specific cell surface receptors. These receptors usually contain an extracellular ligand-binding region containing three immunoglobulin-like domains, a transmembrane domain and a cytoplasmic tyrosine kinase domain. Fibroblast growth factor-15 (FGF-15), a secreted protein expressed mainly in the developing brain, is important for cell division and patterning regulation in specific embryonic brain regions.

REFERENCES

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2. Dionne, C.A., et al. 1990. Cloning and expression of two distinct high-affinity receptors cross-reacting with acidic and basic fibroblast growth factors. *EMBO J.* 9: 2685-2692.
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4. Gimeno, L., et al. 2002. Analysis of FGF-15 expression pattern in the mouse neural tube. *Brain Res. Bull.* 57: 297-299.
5. Ishibashi, M., et al. 2002. A sonic hedgehog-dependent signaling relay regulates growth of diencephalic and mesencephalic primordia in the early mouse embryo. *Development* 129: 4807-4819.
6. Gimeno, L., et al. 2003. Study of FGF-15 gene expression in developing mouse brain. *Gene Expr. Patterns* 3: 473-481.
7. Katoh, M. 2003. Evolutionary conservation of CCND1-ORAOV1-FGF19-FGF4 locus from zebrafish to human. *Int. J. Mol. Med.* 12: 45-50.
8. Wright, T.J., et al. 2004. Mouse FGF-15 is the ortholog of human and chick FGF-19, but is not uniquely required for otic induction. *Dev. Biol.* 269: 264-275.

CHROMOSOMAL LOCATION

Genetic locus: *Fgf15* (mouse) mapping to 7 F5.

PRODUCT

FGF-15 (m): 293T Lysate represents a lysate of mouse FGF-15 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

FGF-15 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive FGF-15 antibodies. Recommended use: 10-20 µl per lane.

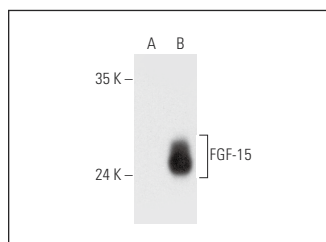
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

FGF-15 (D-9): sc-514647 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse FGF-15 expression in FGF-15 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-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.

DATA



FGF-15 (D-9): sc-514647. Western blot analysis of FGF-15 expression in non-transfected: sc-117752 (A) and mouse FGF-15 transfected: sc-126850 (B) 293T whole cell lysates.

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.

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.