



# SZABO SCANDIC

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Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

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- Gefahrgutzuschlag
- Expressversand

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## FXR2 (h3): 293T Lysate: sc-117244

### BACKGROUND

Fragile X syndrome is the most frequent form of inherited mental retardation and is the result of transcriptional silencing of the FMR1 gene on the X chromosome. The FMR1 gene contains a distinct CpG dinucleotide repeat located in the 5' untranslated region of the gene, and in the fragile X syndrome, this tandem repeat is substantially amplified and subjected to extensive methylation and enhanced transcriptional silencing. The FMR1 protein (or FMRP) is an RNA-binding protein that associates with polyribosomes and is a likely component of a messenger ribonuclear protein (mRNP) particle. It contains several features that are characteristics of RNA-binding proteins, including two hnRNPK homology (KH) domains and an RGG amino acid motif (RGG box). FMR1 can also interact with two fragile X syndrome related factors, FXR1 and FXR2, and these proteins form heterodimers through their N-terminal coiled domains. It localizes to both the nucleus and the cytoplasm, and since it contains both a nuclear localization signal and a nuclear export signal, it is also implicated in the nucleo-cytoplasmic transport of mRNAs.

### REFERENCES

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### CHROMOSOMAL LOCATION

Genetic locus: FXR2 (human) mapping to 17p13.1.

### PRODUCT

FXR2 (h3): 293T Lysate represents a lysate of human FXR2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

### APPLICATIONS

FXR2 (h3): 293T Lysate is suitable as a Western Blotting positive control for human reactive FXR2 antibodies. Recommended use: 10-20 µl per lane.

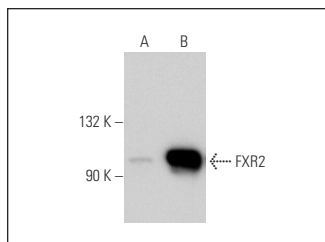
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

FXR2 (1G2): sc-32266 is recommended as a positive control antibody for Western Blot analysis of enhanced human FXR2 expression in FXR2 transfected 293 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



FXR2 (1G2): sc-32266. Western blot analysis of FXR2 expression in non-transfected: sc-117752 (A) and human FXR2 transfected: sc-117244 (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](http://www.scbt.com) for detailed protocols and support products.