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GABP- α (m): 293T Lysate: sc-120382

BACKGROUND

The transcription factor GA-binding protein (GABP) is composed of two subunits, the Ets-related GABP- α and a GABP- α -associated subunit, GABP- β . GABP- α binds to a specific DNA sequence and GABP- β exists as $\beta 1$ and $\beta 2$ splice variants that differ in their C-termini. In primary neuronal cultures, GABP- β is expressed in both the cytoplasm and the nucleus, whereas GABP- α is expressed mainly in the nucleus. GABP is constitutively expressed as either a GABP- α/β heterodimer or a GABP- α/β heterotetramer, both of which can modify GABP-dependent transcription *in vitro* and *in vivo*. The GABP- α/β tetrameric complex performs many different functions, such as stimulating transcription of the adenovirus E4 gene, differentially activating BRCA1 expression in human breast cell lines, potentiating Tat-mediated activation of long terminal repeat promoter transcription and viral replication in certain cell types, acting as a coordinator of mitochondrial and nuclear transcription for cytochrome oxidase in neurons and assisting in the regulation of RPL32 gene transcription.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: *Gabpa* (mouse) mapping to 16 C3.3.

PRODUCT

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

APPLICATIONS

GABP- α (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive GABP- α antibodies. Recommended use: 10-20 μ l per lane.

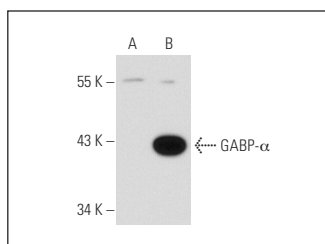
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

GABP- α (G-1): sc-28312 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse GABP- α expression in GABP- α 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



GABP- α (G-1): sc-28312. Western blot analysis of GABP- α expression in non-transfected: sc-117752 (A) and truncated mouse GABP- α transfected: sc-120382 (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.