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GBP2 (m): 293T Lysate: sc-120431

BACKGROUND

Guanylate-binding proteins, GBP1 and GBP2, are GTP-binding proteins with a high-turnover GTPase activity and an antiviral effect. GBP1 mediates an antiviral effect against both vesicular stomatitis virus and encephalomyocarditis virus, and plays a role in the IFN-mediated antiviral response against these viruses. GBP1 and GBP2 belong to a group of large GTP-binding proteins with a high concentration-dependent GTPase activity that have the common ability to undergo oligomerization. GBP1 and GBP2 are bone marrow-derived GTPases encoded by interferon-activated genes and are inducible following IFN treatment. Specifically, GBP1 is expressed in cultured mammary epithelial tumor cell lines after treatment with IFN- γ and LPS.

REFERENCES

1. Praefcke, G.J., Geyer, M., Schwemmler, M., Robert Kalbitzer, H. and Herrmann, C. 1999. Nucleotide-binding characteristics of human guanylate-binding protein 1 (hGBP1) and identification of the third GTP-binding motif. *J. Mol. Biol.* 292: 321-332.
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3. Anderson, S.L., Carton, J.M., Lou, J., Xing, L. and Rubin, B.Y. 1999. Interferon-induced guanylate binding protein-1 (GBP1) mediates an antiviral effect against vesicular stomatitis virus and encephalomyocarditis virus. *Virology* 256: 8-14.
4. Sun, H., Jackson, M.J., Kundu, N. and Fulton, A.M. 1999. Interleukin-10 gene transfer activates interferon- γ and the interferon- γ -inducible genes GBP1/MAG-1 and Mig-1 in mammary tumors. *Int. J. Cancer* 80: 624-629.
5. Prakash, B., Praefcke, G.J., Renault, L., Wittinghofer, A. and Herrmann, C. 2000. Structure of human guanylate-binding protein 1 representing a unique class of GTP-binding proteins. *Nature* 403: 567-571.

CHROMOSOMAL LOCATION

Genetic locus: Gbp2 (mouse) mapping to 3 H1.

PRODUCT

GBP2 (m): 293T Lysate represents a lysate of mouse GBP2 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

GBP2 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive GBP2 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.

STORAGE

Store at -20 $^{\circ}$ 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.