VHR (h): 293T Lysate: sc-170129



BACKGROUND

Mitogen-activated protein (MAP) kinases are a large class of proteins involved in signal transduction pathways that are activated by a range of stimuli and mediate a number of physiological and pathological changes in the cell. Dual specificity phosphatases (DSPs) are a subclass of the protein tyrosine phosphatase (PTP) gene superfamily, which are selective for dephosphorylating critical phosphothreonine and phosphotyrosine residues within MAP kinases. DSP gene expression is induced by a host of growth factors and/or cellular stresses, thereby negatively regulating MAP kinase superfamily members including MAPK/ERK, SAPK/JNK and p38. The members of the dual-specificity phosphatase protein family include MKP-1/CL100 (3CH134), VHR, PAC1, MKP-2, hVH-3 (B23), hVH-5, MKP-3, MKP-X, and MKP-4. Human VHR maps to chromosome 17q21.31 and encodes a 185 amino acid protein that elicits protein-serine and tyrosine phosphatase activity and is expressed in breast and ovarian tissues.

REFERENCES

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- Sun, H. 1998. Functional studies of dual-specificity phosphatases. Methods Mol. Biol. 84: 307-318.
- 4. Online Mendelian Inheritance in Man, OMIM™. 1998. Johns Hopkins University, Baltimore, MD. MIM Number: 603068. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
- Camps, M., et al. 2000. Dual specificity phosphatases: a gene family for control of MAP kinase function. FASEB J. 14: 6-16.

CHROMOSOMAL LOCATION

Genetic locus: DUSP3 (human) mapping to 17q21.31.

PRODUCT

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

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.

APPLICATIONS

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

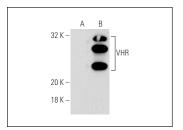
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

VHR (24): sc-136118 is recommended as a positive control antibody for Western Blot analysis of enhanced human VHR expression in VHR transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RESEARCH USE

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

DATA



VHR (24): sc-136118. Western blot analysis of VHR expression in non-transfected: sc-117752 (A) and human VHR transfected: sc-170129 (B) 293T whole cell lysates.

PROTOCOLS

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