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FIH-1 (h2): 293T Lysate: sc-159159

BACKGROUND

Factor inhibiting HIF-1 (FIH-1) exists as a homodimer and binds to HIF-1 α . Specifically, FIH-1 operates as an asparaginylhydroxylase. FIH-1 catalyzes the hydroxylation of the β -carbon of asparagine residue 803 within the C-terminal transactivation domain of HIF-1 α . This hydroxylation event blocks the association of HIF-1 α with coactivators. FIH-1 also binds to von Hippel-Lindau (VHL) tumor suppressor protein, which represses transcriptional activity of HIF-1 α . In transiently transfected human osteosarcoma cells, FIH-1 localizes to the cytoplasm. The structure of FIH-1 includes a jellyroll-like β -barrel containing ferrous-binding triad residues. The gene encoding human FIH-1 maps to chromosome 10q24.31.

REFERENCES

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5. Metzen, E., Berchner-Pfannschmidt, U., Stengel, P., Marxsen, J.H., Stolze, I., Klinger, M., Huang, W.Q., Wotzlaw, C., Hellwig-Burgel, T., Jelkmann, W., Acker, H. and Fandrey, J. 2003. Intracellular localisation of human HIF-1 α hydroxylases: implications for oxygen sensing. *J. Cell Sci.* 116: 1319-1326.

CHROMOSOMAL LOCATION

Genetic locus: HIF1AN (human) mapping to 10q24.31.

PRODUCT

FIH-1 (h2): 293T Lysate represents a lysate of human FIH-1 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

FIH-1 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive FIH-1 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.