SANTA CRUZ BIOTECHNOLOGY, INC.

HRF (h2): 293 Lysate: sc-113082

BACKGROUND

Histamine is an inflammatory mediator that is ubiquitously expressed and has a broad range of pharmacologic effects. Specifically, it plays a role in the central nervous, gastrointestinal, respiratory and immune systems. Histamine release is mediated by the stimulation of mast cells and basophils. Histamine-releasing factor (HRF) is a cytokine-like molecule that causes the release of Histamine, IL-4 and IL-13 from basophils, as well as the secretion of IL-8 and a calcium response in eosinophils. HRF belongs to the translationally controlled tumor protein (TCTP) family. It is expressed in several healthy and tumoral cells, including erythrocytes, hepatocytes, macrophages, platelets, keratinocytes, erythroleukemia cells, gliomas, melanomas, hepatoblastomas and lymphomas, and it is localized in the cytoplasm. HRF plays a pivotal role in allergic diseases, and due to its wide distribution in brain, is thought to be involved in neurodegenerative disorders, such as Alzheimer's disease and Down syndrome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TPT1 (human) mapping to 13q14.13.

PRODUCT

HRF (h2): 293 Lysate represents a lysate of human HRF transfected 293 cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

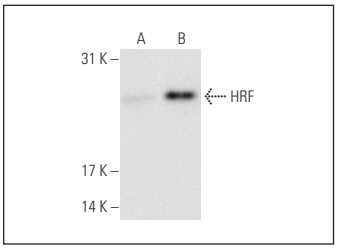
APPLICATIONS

HRF (h2): 293 Lysate is suitable as a Western Blotting positive control for human reactive HRF antibodies. Recommended use: 10-20 µl per lane.

Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-tranfected 293 cells.

HRF (20): sc-135940 is recommended as a positive control antibody for Western Blot analysis of enhanced human HRF expression in HRF transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



HRF (20): sc-135940. Western blot analysis of HRF expression in non-transfected: sc-110760 (**A**) and human HRF transfected: sc-113082 (**B**) 293 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.