

# HRF (FL-172): sc-30124

## 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.

## CHROMOSOMAL LOCATION

Genetic locus: TPT1 (human) mapping to 13q14.13; FKSG2 (human) mapping to 13q14.13; Tpt1 (mouse) mapping to 14 D3.

## SOURCE

HRF (FL-172) is a rabbit polyclonal antibody raised against amino acids 1-172 representing full length HRF of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

HRF (FL-172) is recommended for detection of HRF and FKSG2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

HRF (FL-172) is also recommended for detection of HRF and FKSG2 in additional species, including canine, bovine, porcine and avian.

Molecular Weight of HRF: 23 kDa.

Positive Controls: HRF (h2): 293 Lysate: sc-113082, DU 145 cell lysate: sc-2268 or CCRF-CEM nuclear extract: sc-2146.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

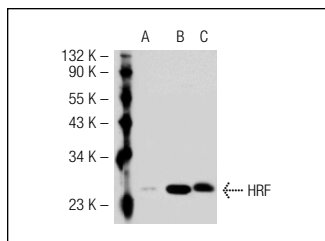
## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

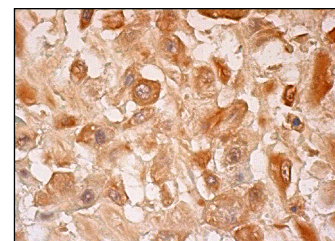
## RESEARCH USE

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

## DATA



HRF (FL-172): sc-30124. Western blot analysis of HRF expression in non-transfected 293: sc-110760 (A), human HRF transfected 293: sc-113082 (B) and DU 145 (C) whole cell lysates.



HRF (FL-172): sc-30124. Immunoperoxidase staining of formalin fixed, paraffin-embedded human placenta tissue showing nuclear and cytoplasmic staining of decidual cells.

## SELECT PRODUCT CITATIONS

1. Umeda, D., et al. 2008. H89 (N-[2-(p-bromocinnamylamino)ethyl]-5-isoquinolinesulfonamide) induces reduction of myosin regulatory light chain phosphorylation and inhibits cell proliferation. *Eur. J. Pharmacol.* 590: 61-66.
2. Chelh, I., et al. 2009. Molecular profiles of Quadriceps muscle in myostatin-null mice reveal PI3K and apoptotic pathways as myostatin targets. *BMC Genomics* 10: 196.
3. Bazile, F., et al. 2009. Complex relationship between TCTP, microtubules and actin microfilaments regulates cell shape in normal and cancer cells. *Carcinogenesis* 30: 555-565.
4. Johansson, H., et al. 2010. Core transcription factors, Oct4, Sox2 and Nanog, individually form complexes with nucleophosmin (Npm1) to control embryonic stem (ES) cell fate determination. *Aging* 2: 815-822.
5. Chelh, I., et al. 2011. Myostatin inactivation induces a similar muscle molecular signature in double-muscled cattle as in mice. *Animal* 5: 278-286.
6. Zhang, J., et al. 2012. Role of the translationally controlled tumor protein in DNA damage sensing and repair. *Proc. Natl. Acad. Sci. USA* 109: E926-E933.

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Try **HRF (B-3): sc-133131** or **HRF (20): sc-135940**, our highly recommended monoclonal alternatives to HRF (FL-172).