**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**


**CHROMOSOMAL LOCATION**

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

**SOURCE**

HRF (20) is a mouse monoclonal antibody raised against amino acids 91-107 of HRF of human origin.

**PRODUCT**

Each vial contains 50 µg IgG1 in 0.5 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**RESEARCH USE**

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

**APPLICATIONS**

HRF (20) is recommended for detection of HRF of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); not recommended for immunoprecipitation.

Suitable for use as control antibody for HRF siRNA (h): sc-40675, HRF siRNA (m): sc-40676, HRF shRNA Plasmid (h): sc-40675-SH, HRF shRNA Plasmid (m): sc-40676-SH, HRF shRNA (h) Lentiviral Particles: sc-40675-V and HRF shRNA (m) Lentiviral Particles: sc-40676-V.

Molecular Weight of HRF: 23 kDa.


**DATA**

**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 website at www.scbt.com for detailed protocols and support products.