

Technical Data Sheet

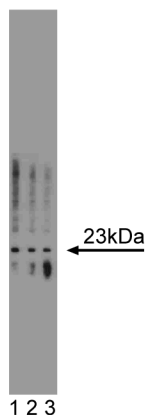
Purified Mouse Anti-HRF

Product Information

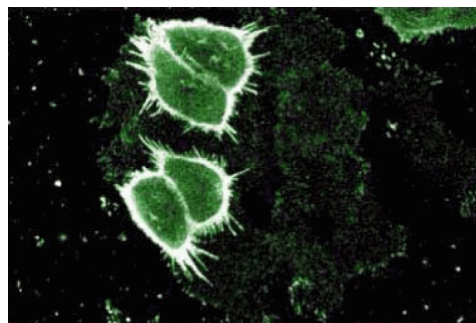
Material Number:	610475
Alternate Name:	Histamine Releasing Factor
Size:	50 µg
Concentration:	250 µg/ml
Clone:	20/HRF
Immunogen:	Human HRF aa. 91-107
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Mouse
Target MW:	23 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

One of the most powerful effector mechanisms of the immune system is the reaction initiated by IgE-dependent tissue stimulation of mast cells and basophils. When antigen binds surface IgE on these cells, there is a rapid release of histamine and other mediators that collectively initiate immediate hypersensitivity. This effect is part of a larger response called the late phase reaction (LPR). An IgE-dependent Histamine Releasing Factor (HRF) is present in biological fluids of allergic patients. It causes the release of histamine in IgE-producing cell preparations, where non IgE-producing cells of the same origin do not release histamine. HRF has been reported to be observed as a 21 kDa or 23 kDa protein produced in mouse and human cell lines, respectively. Its sequence does not predict a secretory form, but HRF is found in biological fluids. Neither the exact function of this protein nor the method of its secretion is known.



Western blot analysis of HRF on a A431 cell lysate (Human epithelial carcinoma; ATCC CRL-1555). Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the mouse anti-HRF antibody.



Immunofluorescence staining of A431 cells (Human epithelial carcinoma; ATCC CRL-1555).

Preparation and Storage

Store undiluted at -20° C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

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Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development
Immunoprecipitation	Not Recommended
Immunohistochemistry	Not Recommended

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmlngen/protocols/Western_Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
611447	A431 Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Please refer to www.bdbiosciences.com/pharmlngen/protocols for technical protocols.

References

MacDonald SM, Rafnar T, Langdon J, Lichtenstein LM. Molecular identification of an IgE-dependent histamine-releasing factor. *Science*. 1995; 269(5224):688-690.(Biology)