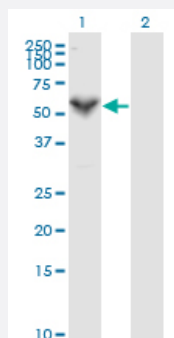


PRF1 monoclonal antibody (M04), clone 3B4

Catalog # H00005551-M04

Size 100 ug

Applications

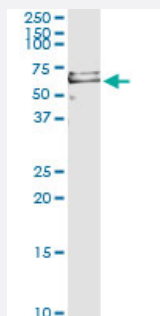


Western Blot (Transfected lysate)

Western Blot analysis of PRF1 expression in transfected 293T cell line by PRF1 monoclonal antibody (M04), clone 3B4.

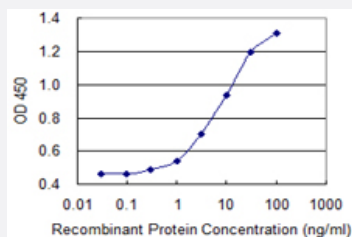
Lane 1: PRF1 transfected lysate (61.4 kDa).

Lane 2: Non-transfected lysate.



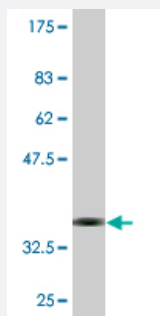
Immunoprecipitation

Immunoprecipitation of PRF1 transfected lysate using anti-PRF1 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with PRF1 MaxPab rabbit polyclonal antibody.



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PRF1 is 0.1 ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.19 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant PRF1.
Immunogen	PRF1 (NP_005032.2, 461 a.a. ~ 555 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	WSVRLDFGDVLLATGGPLRLQVWDQDSGRDDDLLGTCDQAPKSGSHEVRCNLNHGHLKFRYH ARCLPHLGGGTCLDYVPQMLLGEPPGNRSGAVW
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (72); Rat (74)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.19 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

● Western Blot (Transfected lysate)

Western Blot analysis of PRF1 expression in transfected 293T cell line by PRF1 monoclonal antibody (M04), clone 3B4.

Lane 1: PRF1 transfected lysate(61.4 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunoprecipitation

Immunoprecipitation of PRF1 transfected lysate using anti-PRF1 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with PRF1 MaxPab rabbit polyclonal antibody.

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PRF1 is 0.1 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — PRF1

Entrez GeneID [5551](#)

GeneBank Accession# [NM_005041](#)

Protein Accession# [NP_005032.2](#)

Gene Name PRF1

Gene Alias FLH2, HPLH2, MGC65093, P1, PFN1, PFP

Gene Description perforin 1 (pore forming protein)

Omim ID [170280 603553 605027](#)

Gene Ontology [Hyperlink](#)

Gene Summary The protein encoded by this gene has structural and functional similarities to complement component 9 (C9). Like C9, this protein creates transmembrane tubules and is capable of lysing non-specifically a variety of target cells. This protein is one of the main cytolytic proteins of cytolytic granules, and it is known to be a key effector molecule for T-cell- and natural killer-cell-mediated cytotoxicity. Defects in this gene cause familial hemophagocytic lymphohistiocytosis type 2 (HPLH2), a rare and lethal autosomal recessive disorder of early childhood. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq]

Other Designations OTTHUMP00000019759|cytolysin|lymphocyte pore forming protein|perforin 1

Publication Reference

- [Overexpressed perforin contributes to the melanocyte destruction via epigenetic regulation in patients with vitiligo.](#)

Qiancheng Deng, Puyu Zou, Pei Du, Yaqian Shi, Zixin Pi, Yangfan Xiao, Takuro Kanekura, Huiming Zhang, Yi Zhan, Xiangning Qiu, Yan Ding, Zhuotong Zeng, Rong Xiao.

International Immunopharmacology 2023 Jan; 114:109574.

Application: IHC, Human, Human skin

Pathway

- [Allograft rejection](#)
- [Autoimmune thyroid disease](#)
- [Graft-versus-host disease](#)
- [Natural killer cell mediated cytotoxicity](#)
- [Type I diabetes mellitus](#)

Disease

- [Alzheimer Disease](#)
- [Arthritis](#)
- [Asthma](#)
- [Autoimmune Diseases](#)
- [Bronchiolitis](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Epstein-Barr Virus Infections](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)

- [HTLV-I Infections](#)
- [Infant](#)
- [Leukemia](#)
- [Lymphohistiocytosis](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Macrophage Activation Syndrome](#)
- [Multiple Sclerosis](#)
- [Respiratory Syncytial Virus Infections](#)