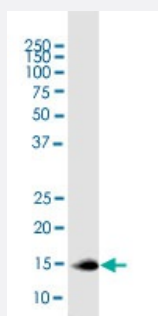


MIF monoclonal antibody (M01), clone 2A10-4D3

Catalog # H00004282-M01

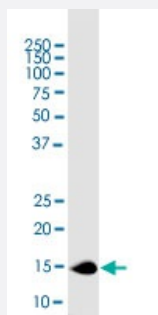
Size 100 ug

Applications



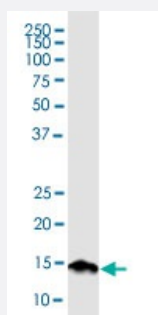
Western Blot (Cell lysate)

MIF monoclonal antibody (M01), clone 2A10-4D3. Western Blot analysis of MIF expression in HeLa.



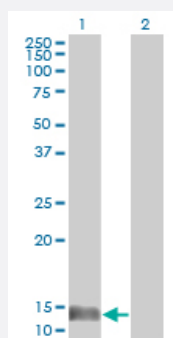
Western Blot (Cell lysate)

MIF monoclonal antibody (M01), clone 2A10-4D3. Western Blot analysis of MIF expression in A-549.



Western Blot (Cell lysate)

MIF monoclonal antibody (M01), clone 2A10-4D3. Western Blot analysis of MIF expression in HepG2.

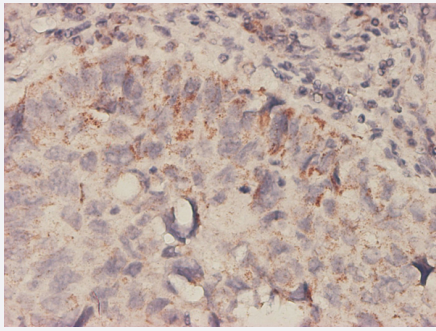


Western Blot (Transfected lysate)

Western Blot analysis of MIF expression in transfected 293T cell line by MIF monoclonal antibody (M01), clone 2A10-4D3.

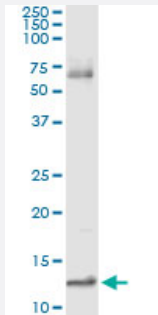
Lane 1: MIF transfected lysate(12.5 KDa).

Lane 2: Non-transfected lysate.



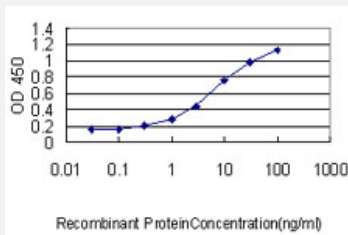
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to MIF on formalin-fixed paraffin-embedded human lung, adenosquamous cell carcinoma tissue. [antibody concentration 1 ~ 10 ug/ml]



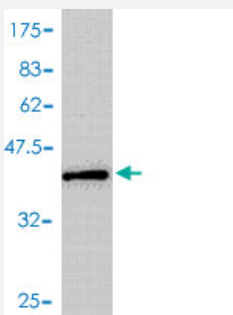
Immunoprecipitation

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



Sandwich ELISA (Recombinant protein)

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



Western Blot detection against Immunogen (38.39 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a full length recombinant MIF.

Immunogen

MIF (AAH00447.1, 1 a.a. ~ 115 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence	MPMFVNTNVPRASVPDGFLELTQQLAQATGKPPQYIAVHVVPDQLMAFGGSSEPCALCSLHSI GKIGGAQNRSYSKLLCGLLAERLRISPDRVYINYDMNAANVGWNNSTFA
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (90); Rat (90)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (38.39 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 (Cell lysate)

MIF monoclonal antibody (M01), clone 2A10-4D3. Western Blot analysis of MIF expression in HeLa.

[Protocol Download](#)

- Western Blot (Cell lysate)

MIF monoclonal antibody (M01), clone 2A10-4D3. Western Blot analysis of MIF expression in A-549.

[Protocol Download](#)

- Western Blot (Cell lysate)

MIF monoclonal antibody (M01), clone 2A10-4D3. Western Blot analysis of MIF expression in HepG2.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of MIF expression in transfected 293T cell line by MIF monoclonal antibody (M01), clone 2A10-4D3.

Lane 1: MIF transfected lysate(12.5 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to MIF on formalin-fixed paraffin-embedded human lung, adenosquamous cell carcinoma tissue. [antibody concentration 1 ~ 10 ug/ml]

[Protocol Download](#)

- Immunoprecipitation

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

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

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

[Protocol Download](#)

- ELISA

Gene Info — MIF

Entrez GeneID [4282](#)

GeneBank Accession# [BC000447](#)

Protein Accession# [AAH00447.1](#)

Gene Name MIF

Gene Alias GIF, GLIF, MMIF

Gene Description macrophage migration inhibitory factor (glycosylation-inhibiting factor)

Omim ID [153620 604302](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a lymphokine involved in cell-mediated immunity, immunoregulation, and inflammation. It plays a role in the regulation of macrophage function in host defense through the suppression of anti-inflammatory effects of glucocorticoids. This lymphokine and the JAB1 protein form a complex in the cytosol near the peripheral plasma membrane, which may indicate an additional role in integrin signaling pathways. [provided by RefSeq]

Other Designations

glycosylation-inhibiting factor|phenylpyruvate tautomerase

Publication Reference

- [Evaluating Macrophage Migration Inhibitory Factor 1 Expression as a Prognostic Biomarker in Colon Cancer.](#)

Lina Olsson, Gudrun Lindmark, Marie-Louise Hammarström, Sten Hammarström, Basel Sitohy.

Tumour Biology : the Journal of the International Society for Oncodevelopmental Biology and Medicine 2020 Jun; 42(6):1010428320.

Application: IHC, IF, Human, Colon cancer

- [An HLA-Presented Fragment of Macrophage Migration Inhibitory Factor Is a Therapeutic Target for Invasive Breast Cancer.](#)

Hawkins O, Verma B, Lightfoot S, Jain R, Rawat A, McNair S, Caseltine S, Mojsilovic A, Gupta P, Neethling F, Almanza O, Dooley W, Hildebrand W, Weidanz J.

Journal of Immunology 2011 Jun; 186(11):6607.

Application: IHC-Fr, Human, BT-20-A2, MCF10A, MDA-MB-231 cells, Human breast cancer

- [eIF3m expression influences the regulation of tumorigenesis-related genes in human colon cancer.](#)

Goh SH, Hong SH, Hong SH, Lee BC, Ju MH, Jeong JS, Cho YR, Kim IH, Lee YS.

Oncogene 2011 Jan; 30(4):398.

Application: WB-Tr, Human, HCT-116 cells

Pathway

- [Phenylalanine metabolism](#)
- [Tyrosine metabolism](#)

Disease

- [Acute Disease](#)
- [Alopecia Areata](#)
- [Alphavirus Infections](#)
- [Alzheimer disease](#)
- [Amyotrophic lateral sclerosis](#)

- [Anemia](#)
- [Anoxia](#)
- [Arthralgia](#)
- [Arthritis](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Atrophy](#)
- [Autoimmune Diseases](#)
- [Biliary Atresia](#)
- [Birth Weight](#)
- [Bone Resorption](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Cerebrovascular Accident](#)
- [Chagas Disease](#)
- [Chorioamnionitis](#)
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- [Fetal Membranes](#)
- [Gastritis](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
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- [Hamartoma](#)
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- [Inflammation](#)
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- [Kidney Failure](#)
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- [Liver Diseases](#)
- [Lung Diseases](#)

- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Malaria](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Metaplasia](#)
- [Mucocutaneous Lymph Node Syndrome](#)
- [Multiple Sclerosis](#)
- [Myocardial Infarction](#)
- [Neoplasms](#)
- [Nephrosis](#)
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- [Premature Birth](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Psoriasis](#)
- [Purpura](#)
- [Radiation Injuries](#)
- [Radiation Pneumonitis](#)

- [Recurrence](#)
- [Sarcoidosis](#)
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- [Stomach Neoplasms](#)
- [Temporal Arteritis](#)
- [Tooth Loss](#)
- [Tuberculosis](#)
- [Vasculitis](#)
- [Vision Disorders](#)