MIF (Macrophage Migration Inhibitory Factor) Antibody

Mouse Monoclonal Antibody [Clone MIF/6281]

Catalog No	Format	Size
4282-MSM11-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
4282-MSM11-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
4282-MSM11-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

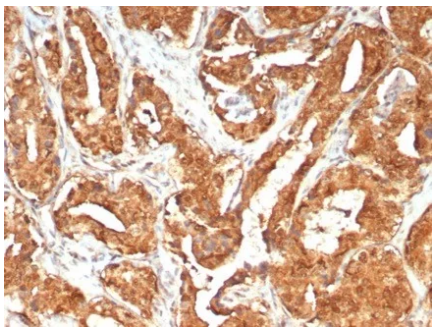
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

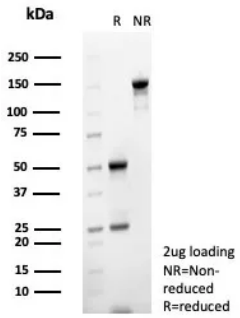
Clone	MIF/6281
Gene Name	MIF
Immunogen	Recombinant fragment of human MIF protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG
Mol. Weight of Antigen	13kDa
Cellular Localization	Secreted. Cytoplasm.
Species Reactivity	Human
Positive Control	Human tonsil|thymus or prostate. PC3 or HEK-293 cells.

**Optimal dilution for a specific application should be determined.*

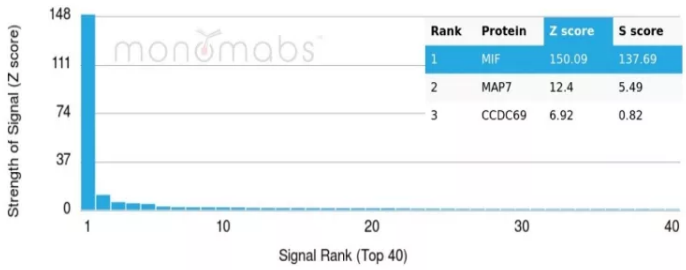
Product Images for MIF (Macrophage Migration Inhibitory Factor) Antibody



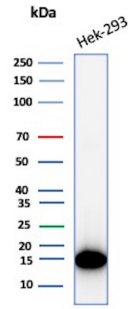
Formalin-fixed, paraffin-embedded human prostate carcinoma stained with MIF Mouse Monoclonal Antibody (MIF/6281). HIER: Tris/EDTA, pH9.0, 45min. 2°: HRP-polymer, 30min. DAB, 5min.



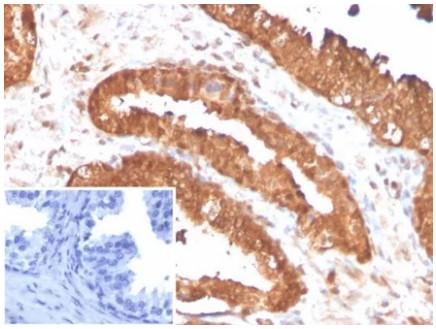
SDS-PAGE Analysis of Purified MIF Mouse Monoclonal Antibody (MIF/6281). Confirmation of Purity and Integrity of Antibody.



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing Macrophage Migration Inhibitory Factor Mouse Monoclonal Antibody (MIF/6281). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Western Blot Analysis of HEK-293 cell lysate using MIF Mouse Monoclonal Antibody (MIF/6281).



Formalin-fixed, paraffin-embedded human prostate carcinoma stained with MIF Mouse Monoclonal Antibody (MIF/6281). Inset: PBS instead of primary antibody; secondary only negative control.

Specificity & Comments

Macrophage migration inhibitory factor, known as MIF or glycosylationinhibiting factor, is a secreted, homotrimeric, pro-inflammatory cytokine that modulates macrophage and T cell function and is an important regulator of host response to infection. MIF is expressed at sites of inflammation, which suggests that it plays a role in regulating macrophage function in host defense. MIF is produced by the pituitary gland and is found in monocytes, macrophages, differentiating immunological cells in the eye lens and brain, and fibroblasts. Elevated levels of MIF protein are detected in the plasma of patients with severe sepsis or septic shock, a condition where MIF influences endotoxic shock by enhancing the production of other inflammatory cytokines including tumor necrosis factor Î ? (TNFÎ ?), interleukin-1 (IL-1) and interferon-Î ? (IFN-Î ?). MIF promotes the systemic inflammatory response by counter-regulating glucocorticoid-mediated inhibition of immune-cell activation and proinflammatory cytokine production. MIF may mediate tissue destruction through the induction of proteinases.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Cardiovascular, Cytokine Signaling, Immunology

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.