

Datasheet for ABIN3043878
anti-MIF antibody (AA 2-115)[Go to Product page](#)

3 Images

Overview

Quantity:	100 µg
Target:	MIF
Binding Specificity:	AA 2-115
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Macrophage migration inhibitory factor(MIF) detection. Tested with WB, IHC-P, ICC in Human.
Immunogen:	E.coli-derived human MIF recombinant protein (Position: P2-A115). Human MIF shares 89% and 90% amino acid (aa) sequence identity with mouse and rat MIF respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Macrophage migration inhibitory factor(MIF) detection. Tested with WB, IHC-P, ICC in Human. Gene Name: macrophage migration inhibitory factor (glycosylation-inhibiting factor) Protein Name: Macrophage migration inhibitory factor
Purification:	Immunogen affinity purified.

Target Details

Target:	MIF
Alternative Name:	MIF (MIF Products)
Background:	<p>Macrophage migration inhibitory factor (MIF or MMIF), also known as GIF, is a protein that in humans is encoded by the MIF gene. It is a cytokine released by T-lymphocytes, macrophages, and the pituitary gland that serves to integrate peripheral and central inflammatory responses. MIF gene has 3 exons separated by introns of only 189 and 95 bp, and covers less than 1 kb. The localization of the human gene for MIF is to chromosome 22q11.2. MIF plays a critical role in inflammatory diseases and atherogenesis. It is also involved in cell-mediated immunity and immunoregulation. MIF plays a role in the regulation of macrophage function in host defense through the suppression of anti-inflammatory effects of glucocorticoids.</p> <p>Synonyms: acrophage migration inhibitory factor (glycosylation-inhibiting factor) antibody GIF antibody GLIF antibody Glycosylation inhibiting factor antibody Glycosylation-inhibiting factor antibody L-dopachrome isomerase antibody L-dopachrome tautomerase antibody Macrophage migration inhibitory factor antibody Macrophage migration inhibitory factor antibody MIF antibody MIF antibody MIF protein antibody MIF_HUMAN antibody MMIF antibody Phenylpyruvate tautomerase antibody Phenylpyruvate tautomerase antibody</p>
Gene ID:	4282
UniProt:	P14174
Pathways:	Regulation of Systemic Arterial Blood Pressure by Hormones , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response , Regulation of Carbohydrate Metabolic Process , Feeding Behaviour , Smooth Muscle Cell Migration , Negative Regulation of intrinsic apoptotic Signaling

Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, The detection limit for MIF is approximately 0.25 ng/lane under reducing conditions.</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.</p> <p>ICC: Concentration: 0.5-1 µg/mL, Tested Species: Human</p> <p>Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
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Application Details

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and ICC.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

Preservative: Sodium azide

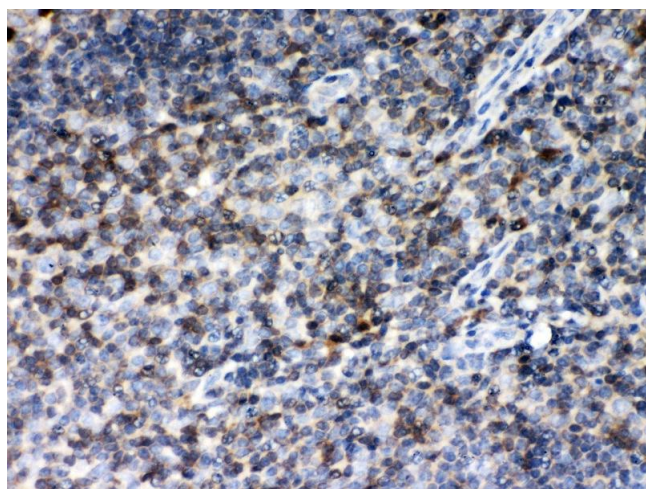
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

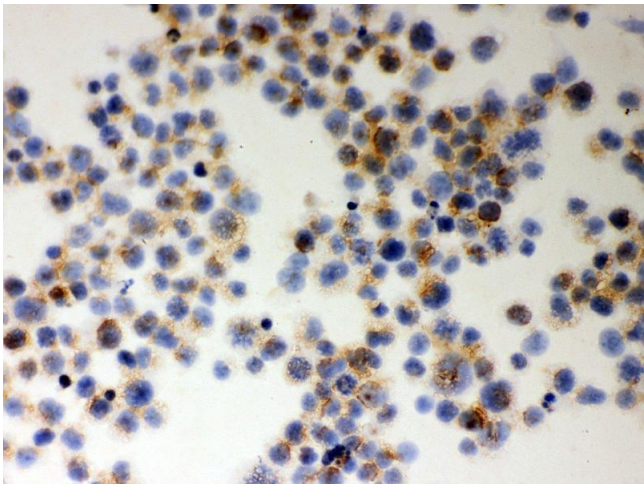
Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Validation report #300029 for Immunohistochemistry (IHC)



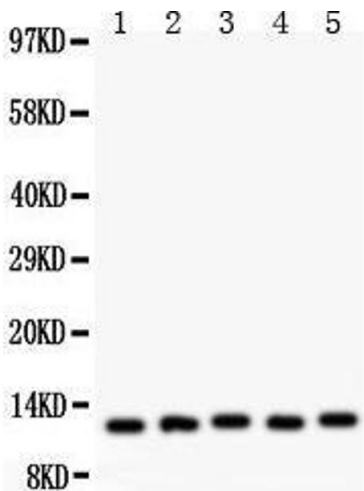
Immunohistochemistry

Image 1. Anti- MIF Picoband antibody, IHC(P) IHC(P):
Human Tonsil Tissue



Immunohistochemistry

Image 2. Anti- MIF Picoband antibody, ICC ICC: JURKAT Cell



Western Blotting

Image 3. Anti- MIF Picoband antibody, Western blotting All lanes: Anti MIF at 0.5ug/ml Lane 1: U87 Whole Cell Lysate at 40ug Lane 2: JURKAT Whole Cell Lysate at 40ug Lane 3: HUT Whole Cell Lysate at 40ug Lane 4: A549 Whole Cell Lysate at 40ug Lane 5: HEPG2 Whole Cell Lysate at 40ug Predicted bind size: 12KD Observed bind size: 12KD