GILZ Monoclonal Antibody (CFMKG15), eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	CFMKG15
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_1311225

Applications	Tested Dilution	Publications
Western Blot (WB)	2 µg/mL	6 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	Assay-Dependent	1 Publication
Flow Cytometry (Flow)	Assay-Dependent	5 Publications

Product Specific Information

Description: GILZ is a leucine-zipper-containing protein that is induced by glucocorticoids. It is expressed in mast cells, monocytes, macrophages, dendritic cells, and T cells. GILZ has been shown to inhibit production of IL-2 as well as TCR-driven upregulation of FasL. GILZ mediates these changes in transcription, at least in part, by inhibiting DNA-binding of the transcription factors AP-1 and NF-kappaB. GILZ has also been shown to mediate anti-inflammatory signals in macrophages and dendritic cells by interfering with NF-kappaB-mediated signaling. Although GILZ has been reported to localize to the nucleus, more recent reports as well as testing at eBioscience have observed predominantly cytoplasmic staining.

Applications Reported: This CFMKG15 antibody has been reported for use in intracellular staining followed by flow cytometric analysis, immunoblotting (WB), and immunocytochemistry. (Fluorochrome conjugated CFMKG15 is recommended for use in intracellular flow cytometry.).

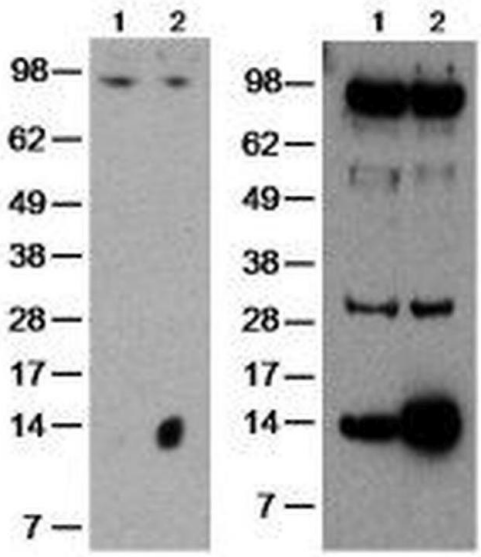
Applications Tested: This CFMKG15 antibody has been tested by western blot analysis of dexamethasone-treated mouse thymocytes. CFMKG15 recognizes endogenous mouse GILZ with an approximate molecular weight of 14 kDa; a non-specific band of approximately 95 kDa is also observed. CFMKG15 also recognizes endogenous human GILZ in dexamethasone-treated peripheral blood mononuclear cells, with an approximate molecular weight of 14 kDa; non-specific bands may also appear at approximately 33 kDa and 95 kDa. This can be used at less than or equal to 2 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For GILZ Monoclonal Antibody (CFMKG15), eBioscience™



GILZ Antibody (14-4033-82) in WB
Left: Immunoblot of mouse thymocytes cultured without (lane 1) or with (lane 2) dexamethasone (10e-7 M) for 3 hr. The membrane was probed with 10 µg/mL of Anti-Human/Mouse GILZ Purified, followed by Anti-Rat IgG HRP. Right: Immunoblot of normal human peripheral blood cells cultured without (lane 1) or with (lane 2) dexamethasone (10e-7 M) for 3 hr. The membrane was probed with 2 µg/mL of Anti-Human/Mouse GILZ Purified, followed by Anti-Rat IgG HRP.

View more figures on thermofisher.com

13 References

Western Blot (6)

Scientific reports

Janus effect of glucocorticoids on differentiation of muscle fibro /adipogenic progenitors.

"Published figure using GILZ monoclonal antibody (Product # 14-4033-82) in Western Blot"

Authors: Cerquone Perpetuini A,Giuliani G,Reggio A,Cerretani M,Santoriello M,Stefanelli R,Palma A,Vumbaca S, Harper S,Castagnoli L,Bresciani A,Cesareni G

Year 2020

Species Mouse

Dilution 1:250

Frontiers in immunology

Glucocorticoid-Induced Leucine Zipper Inhibits Interferon-Gamma Production in B Cells and Suppresses Colitis in Mice.

"14-4033 was used in Western Blotting to indicate that GILZ controls IFN- production in B cells, which also affects T cell activity, and increased production of IFN- by B and T cells in LP is associated with predisposition to inflammatory colitis in mice."

Authors: Bruscoli S,Sorcini D,Flamini S,Gagliardi A,Adamo F,Ronchetti S,Migliorati G,Bereshchenko O,Riccardi C

Year 2019

Species Mouse

View more WB references on thermofisher.com

Immunohistochemistry (Frozen) (1)

Nature communications

DDX5 plays essential transcriptional and post-transcriptional roles in the maintenance and function of spermatogonia.

"14-4033-82 was used in Immunohistochemistry (Frozen) to study the role of DDX5 in spermatogenesis."

Authors: Legrand JMD,Chan AL,La HM,Rossello FJ,Änkö ML,Fuller-Pace FV,Hobbs RM

Year 2019

Species Mouse

Dilution 1:1000

Immunocytochemistry (1)

Journal of immunology research

Regulation of Innate Lymphoid Cells in Acute Kidney Injury: Crosstalk between Cannabidiol and GILZ.

"Published figure using GILZ monoclonal antibody (Product # 14-4033-82) in Immunocytochemistry"

Authors: Baban B,Khodadadi H,Vaibhav K,Marchetti C,Riccardi C,Mozaffari MS

Year 2020

More applications with references on thermofisher.com

Flow (5)