MCP-1 Recombinant Rabbit Monoclonal Antibody (29H86L56)

Product Details	
Size	100 µg
Species	Human
Expression System	Rabbit / IgG
Class	Recombinant Monoclonal
Type	Antibody
Clone	29H86L56
Conjugate	Unconjugated
Immunogen	proprietary
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	0.09% sodium azide
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2532326

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	2-5 µg/mL	-
Immunofluorescence (IF)	2-5 µg/mL	-
Western Blot (WB)	0.05-0.5 µg/mL	-

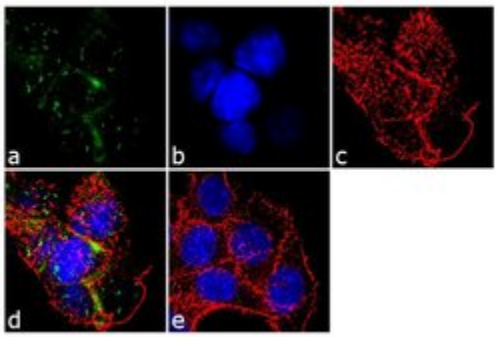
Product Specific Information

This antibody is predicted to react with Rhesus monkey and porcine based on sequence homology.

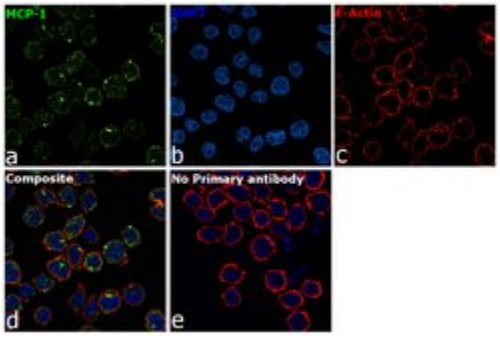
Intact IgG appears on a non-reducing gel as ~150 kDa band and upon reduction generating a ~25 kDa light chain band and a ~50 kDa heavy chain.

Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

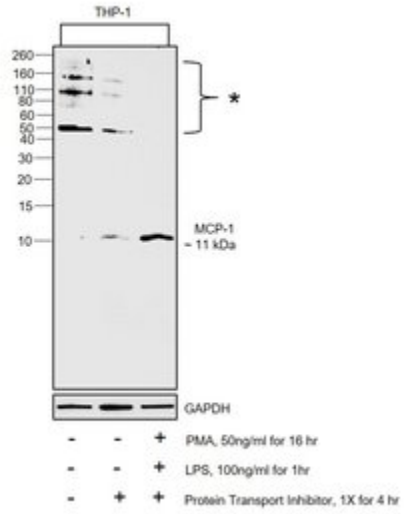
Product Images For MCP-1 Recombinant Rabbit Monoclonal Antibody (29H86L56)



MCP-1 Antibody (700489) in IF
Immunofluorescence analysis of CCL2/MCP-1 was performed using 70% confluent log phase HCT 116 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with CCL2/MCP-1 (29H86L56) Recombinant Rabbit Monoclonal Antibody (Product # 700489) at 2 µg /mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.



MCP-1 Antibody (700489) in ICC
Immunofluorescence analysis of MCP-1 was performed using 70% confluent log phase U-937 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with MCP-1 Recombinant Rabbit Monoclonal Antibody (29H86L56) (Product # 700489) at 5 µg /mL in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Goat anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32731), (1:2000), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b:Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic(Golgi complex like pattern) localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



MCP-1 Antibody (700489) in WB
Western blot was performed using Anti-MCP-1 Recombinant Rabbit Monoclonal Antibody (29H86L56)(Product # 700489) and a 11 kDa band corresponding to MCP-1 was observed in THP-1 treated with PMA and LPS followed by PTI. Non specific bands was also observed in THP-1 around 50 kDa, 110 kDa and 150 kDa. Whole cell extracts (30 µg lysate) of THP-1 (Lane 1), THP-1 treated with PTI (1X for 4hr) (Lane 2), THP-1 treated with PMA (50 ng/mL for 16hr) and LPS (100 ng/mL for 1hr) followed by PTI (1X for 4hr) (Lane 3) were electrophoresed using Novex™ 16% Tricine Protein Gel (Product # EC6695BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (0.3 µg/mL) and detected by chemiluminescence with Goat anti-Rabbit IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using SuperSignal™ West Atto Ultimate Sensitivity Substrate (Product # A38556).

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