Ku80 Recombinant Rabbit Monoclonal Antibody (SC06-14)

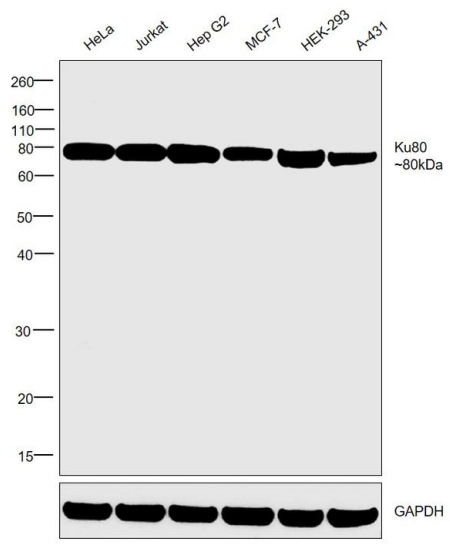
Product Details	
Size	100 µL
Species Reactivity	Human
Host/Isotype	Rabbit / IgG
Expression system	HEK293 cells
Class	Recombinant Monoclonal
Type	Antibody
Clone	SC06-14
Conjugate	Unconjugated
Immunogen	Synthetic peptide within Human Ku80 aa 693-732.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	TBS, pH 7.4, with 40% Glycerol, 0.05% BSA
Contains	0.05% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2809499

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000-1:2,000	-
Immunohistochemistry (IHC)	1:50-1:200	-
Immunocytochemistry (ICC/IF)	1:50-1:200	-

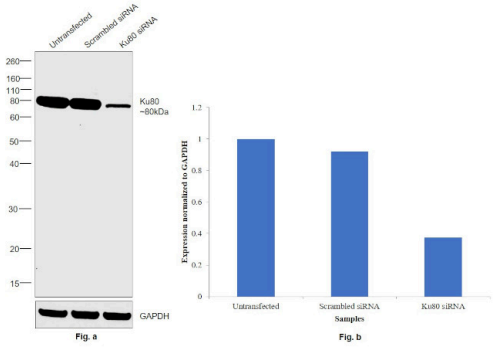
Product Specific Information

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.

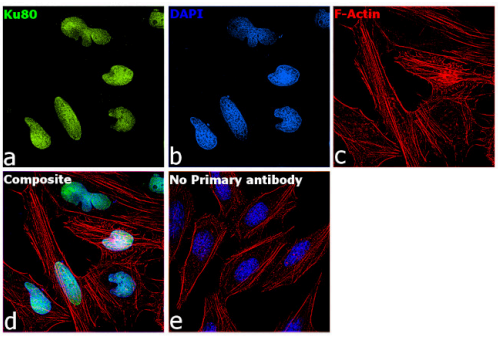
Product Images For Ku80 Recombinant Rabbit Monoclonal Antibody (SC06-14)



Ku80 Antibody (MA5-32212) in WB
Western blot was performed using Anti-Ku80 Recombinant Rabbit Monoclonal Antibody (Product # MA5-32212) and an 80kDa band corresponding to Ku80 was observed in all cell lines tested. Modified whole cell extracts (1% SDS) (30 µg lysate) of HeLa (Lane 1), Jurkat (Lane 2), Hep G2 (Lane 3), MCF-7 (Lane 4), HEK-293 (Lane 5) and A-431 (Lane 6) were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX). 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 (1:1 000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



Ku80 Antibody (MA5-32212)
Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with Ku80 siRNA and decrease in signal intensity was observed in western blot application using Anti-Ku80 Recombinant Rabbit Monoclonal Antibody (SC06-14) (Product # MA5-32212). {KD}



Ku80 Antibody (MA5-32212) in ICC/IF
Immunofluorescence analysis of Ku80 was performed using 70% confluent log phase HeLa 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 1 hour at room temperature. The cells were labeled with Ku80 Recombinant Rabbit Monoclonal Antibody (SC06-14) (Product # MA5-32212) at 1:100 dilution in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32790) 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 Rhodamine Phalloidin (Product # R415, 1: 300). Panel d represents the merged image showing nuclear localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

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