

Ku70/Ku80 Monoclonal Antibody (162)

Product Details

Size	500 µL
Species Reactivity	Human, Mouse, Non-human primate, Xenopus
Published Species	Non-human primate, Hamster, Human
Host/Isotype	Mouse / IgG2a
Class	Monoclonal
Type	Antibody
Clone	162
Conjugate	Unconjugated
Immunogen	Human B cell nuclei from plasmacytoid 2p68 cells
Form	Liquid
Concentration	0.2 mg/mL
Purification	Ammonium sulfate precipitation
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_10980693

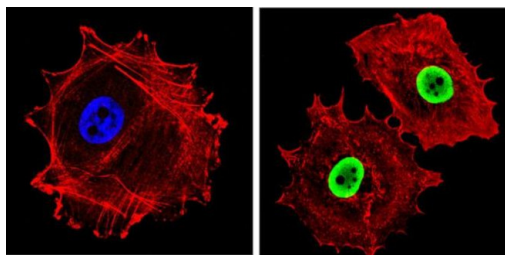
Applications	Tested Dilution	Publications
Western Blot (WB)	-	3 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1-2 µg/mL	-
Immunocytochemistry (ICC/IF)	1:100-1:500	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	-
Immunoprecipitation (IP)	-	8 Publications
ChIP assay (ChIP)	-	1 Publication
Gel Shift (GS)	1mg/mL	5 Publications
Blocking Assay (BLOCK)	-	1 Publication

Product Specific Information

MA5-12938 targets Ku (p70/p80) in FACS, GS, ICC/IF, and IHC (P) applications and shows reactivity with Human, Non-human primate, Mouse and Xenopus laevis samples. This antibody does not cross-react with mouse in immunofluorescent applications, but does react with mouse in FACS applications.

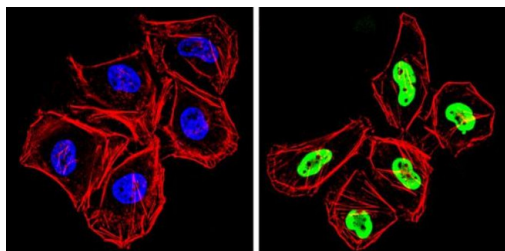
The MA5-12938 immunogen is human B cell nuclei from plasmacytoid 2p68 cells.

Product Images For Ku70/Ku80 Monoclonal Antibody (162)



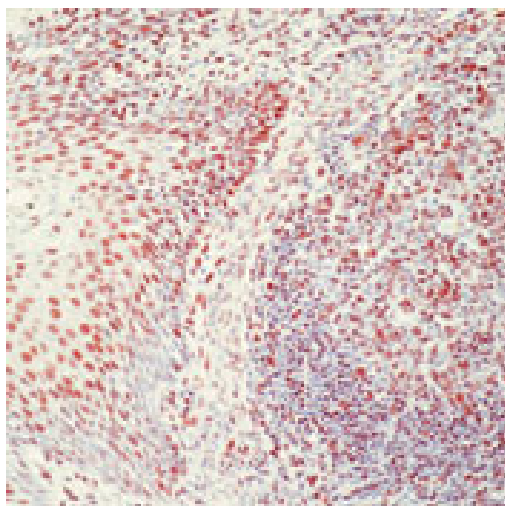
Ku70/Ku80 Antibody (MA5-12938) in ICC/IF

Immunofluorescent analysis of Ku (p70/p80) (green) showing staining in the nucleus of MCF-7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a Ku (p70/p80) monoclonal antibody (Product # MA5-12938) in 3% BSA-PBS at a dilution of 1:200 and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.



Ku70/Ku80 Antibody (MA5-12938) in ICC/IF

Immunofluorescent analysis of Ku (p70/p80) (green) showing staining in the nucleus of HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a Ku (p70/p80) monoclonal antibody (Product # MA5-12938) in 3% BSA-PBS at a dilution of 1:200 and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.



Ku70/Ku80 Antibody (MA5-12938) in IHC (P)

Formalin-fixed, paraffin-embedded human tonsil stained with Ku antibody using peroxidase-conjugate and AEC chromogen. Note nuclear staining of the cells.

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Western Blot (3)

<p>Nucleic acids research</p> <p>Ku counteracts mobilization of PARP1 and MRN in chromatin damaged with DNA double-strand breaks.</p> <p>"MA5-12938 was used in western blot to study the role of PARP1 and MRN proteins in the repair of DNA double strand breaks"</p> <p>Authors: Cheng Q,Barboule N,Frit P,Gomez D,Bombarde O,Couderc B,Ren GS,Salles B,Calsou P</p>	<p>Year 2011</p> <p>Species Human</p>
<p>Nucleic acids research</p> <p>Biochemical evidence for Ku-independent backup pathways of NHEJ.</p> <p>"MA5-12938 was used in western blot to study alternative backup pathways of non-homologous end joining that are independent of Ku"</p> <p>Authors: Wang H,Perrault AR,Takeda Y,Qin W,Wang H,Iliakis G</p>	<p>Year 2003</p> <p>Species Human</p>

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Immunocytochemistry (1)

<p>Experimental cell research</p> <p>Accumulation of Ku80 proteins at DNA double-strand breaks in living cells.</p> <p>"MA5-12938 was used in immunocytochemistry to study the accumulation Ku80 proteins at DNA double-strand breaks in living cells"</p> <p>Authors: Koike M,Koike A</p>	<p>Year 2008</p> <p>Species Hamster</p>
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Immunoprecipitation (8)

<p>PloS one</p> <p>The effect of DNA-dependent protein kinase on adeno-associated virus replication.</p> <p>"MA5-12938 was used in immunoprecipitation to study the role of DNA-dependent protein kinase in adeno-associated virus replication"</p> <p>Authors: Choi YK,Nash K,Byrne BJ,Muzyczka N,Song S</p>	<p>Year 2010</p> <p>Species Human</p>
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More applications with references on thermofisher.com

- ChIP (1)
- GS (5)
- BLOCK (1)

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