Ku70/Ku80 Monoclonal Antibody (162)

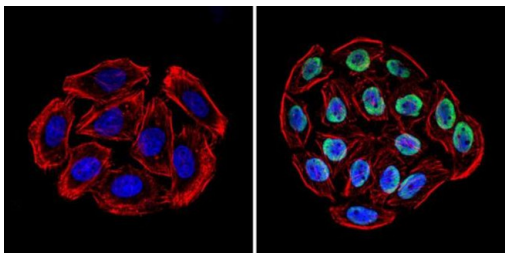
Product Details	
Size	500 µL
Species Reactivity	Human, Mouse, Non-human primate, Rat, Xenopus
Published Species	Non-human primate, Hamster, Mouse, Human
Host/Isotype	Mouse / IgG2a
Class	Monoclonal
Type	Antibody
Clone	162
Conjugate	Unconjugated
Immunogen	Human B cell nuclei from plasmacytoid 2p68 cells.
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_561990

Applications	Tested Dilution	Publications
Western Blot (WB)	-	4 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1-2 µg/mL	-
Immunocytochemistry (ICC/IF)	1:20-1:200	2 Publications
Flow Cytometry (Flow)	0.5-1 µg/test	-
Immunoprecipitation (IP)	-	7 Publications
ChIP assay (ChIP)	-	2 Publications
Neutralization (Neu)	-	1 Publication
Gel Shift (GS)	-	5 Publications

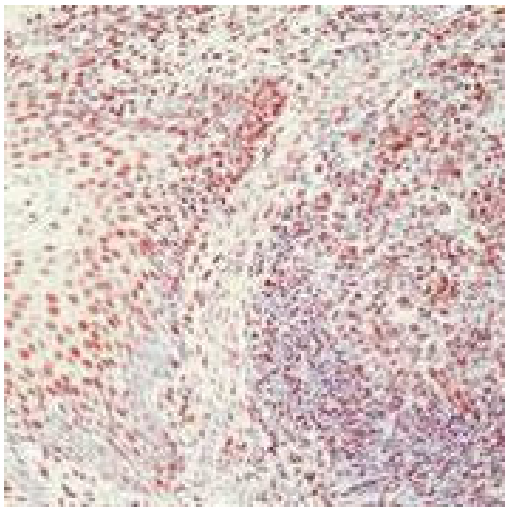
Product Specific Information

MA1-21818 detects Ku70/Ku80 in human, non-human primate, mouse, rat and xenopus laevis samples. It reacts with a conformational epitope of the p70/p80 dimer, which is destroyed during Western blot. This antibody is not recommended for Western blot procedures and will not cross-react with bovine or rabbit.

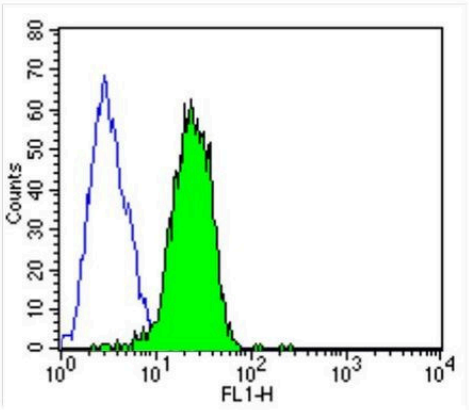
Product Images For Ku70/Ku80 Monoclonal Antibody (162)



Ku70/Ku80 Antibody (MA1-21818) in ICC/IF
Immunofluorescent analysis of Ku70+Ku80 (green) showing staining in the nucleus of A549 cells (right) compared to a negative control without primary antibody (left). 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 Ku70+Ku80 monoclonal antibody (Product # MA1-21818) in 3% BSA-PBS at a dilution of 1:50 and incubated overnight at 4ºC 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. Actin was stained using Alexa Fluor 554 (red) and nuclei were stained with Hoechst or DAPI (blue). Images were taken at a magnification of 60x.



Ku70/Ku80 Antibody (MA1-21818) in IHC (P)
Immunohistochemical analysis of formalin-fixed, paraffin-embedded human tonsil stained using a Ku monoclonal antibody (Product # MA1-21818) with a peroxidase-conjugate and AEC chromogen. Note nuclear staining of the cells.



Ku70/Ku80 Antibody (MA1-21818) in Flow
Flow cytometry analysis of Ku70+Ku80 in C2C12 cells (green) compared to an isotype control (blue). Cells were harvested, adjusted to a concentration of 1-5x10^6 cells/mL, fixed with 2% paraformaldehyde and washed with PBS. Cells were blocked with a 2% solution of BSA-PBS for 30 min at room temperature and incubated with a Ku70+Ku80 monoclonal antibody (Product # MA1-21818) at a dilution of 1 µg/test for 40 min at room temperature. Cells were then incubated for 40 min at room temperature in the dark using a Dylight 488-conjugated secondary antibody and re-suspended in PBS for FACS analysis.

View more figures on thermofisher.com

21 References

Western Blot (4)

Nature communications

Rad52 competes with Ku70/Ku86 for binding to S-region DSB ends to modulate antibody class-switch DNA recombination.

"MA121818 was used in ChIP assay and EMSA to assess the contributions of single-strand annealing factors HR Rad52 and translesion DNA polymerase q to CSR"

Authors: Zan H,Tat C,Qiu Z,Taylor JR,Guerrero JA,Shen T,Casali P

Year
2017

Species
Mouse

Nucleic acids research

Ku counteracts mobilization of PARP1 and MRN in chromatin damaged with DNA double-strand breaks.

"MA1-21818 was used in western blot to study the role of PARP1 and MRN proteins in the repair of DNA double strand breaks"

Authors: Cheng Q,Barboule N,Frit P,Gomez D,Bombarde O,Couderc B,Ren GS,Salles B,Calsou P

Year
2011

Species
Human

View more WB references on thermofisher.com

Immunocytochemistry (2)

International journal of oncology

The DNA damage/repair cascade in glioblastoma cell lines after chemotherapeutic agent treatment.

"MA1-21818 was used in immunocytochemistry, immunohistochemistry - paraffin section, and western blot to analyze chemotherapeutic agent treatment and the DNA damage/repair cascade in glioblastoma cell lines"

Authors: Annovazzi L,Caldera V,Mellai M,Riganti C,Battaglia L,Chirio D,Melcarne A,Schiffer D

Year
2016

Dilution
1:200

Experimental cell research

Accumulation of Ku80 proteins at DNA double-strand breaks in living cells.

"MA1-21818 was used in immunocytochemistry to study the accumulation Ku80 proteins at DNA double-strand breaks in living cells"

Authors: Koike M,Koike A

Year
2008

Species
Hamster

More applications with references on thermofisher.com

IP (7) **ChIP (2)** **Neu (1)** **GS (5)**