

# p23 Monoclonal Antibody (JJ3)

Product Details	
Size	100 µL
Species Reactivity	Chicken, Guinea pig, Human, Mouse, Rabbit, Rat
Published Species	Rabbit, Rat, Mouse, Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	JJ3
Conjugate	Unconjugated
Immunogen	Recombinant human p23 protein.
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	ascites
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2175197

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	20 Publications
Immunohistochemistry (IHC)	-	4 Publications
Immunohistochemistry (Paraffin) (IHC (P))	Assay-dependent	-
Immunocytochemistry (ICC/IF)	1:200-1:2,000	4 Publications
Flow Cytometry (Flow)	1/100	-
Immunoprecipitation (IP)	Assay-dependent	5 Publications
in situ PLA (PLA)	-	1 Publication
RNA Immunoprecipitation (RIP)	Assay-dependent	-

## Product Specific Information

MA3-414 detects p23 from chicken, guinea pig, human, rat, mouse and rabbit samples.

MA3-414 has been successfully used in Western blot, immunofluorescence and immunoprecipitation procedures. By Western blot, this antibody detects a 19 or 23 kDa protein representing p23 from rabbit reticulocyte lysate. MA3-414 can be used to immunoprecipitate both free and complexed p23.

The MA3-414 antigen is recombinant human p23.

## Advanced Verification Data

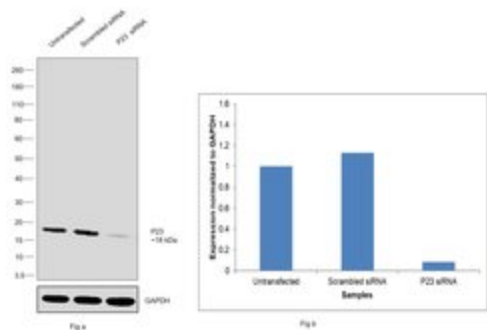
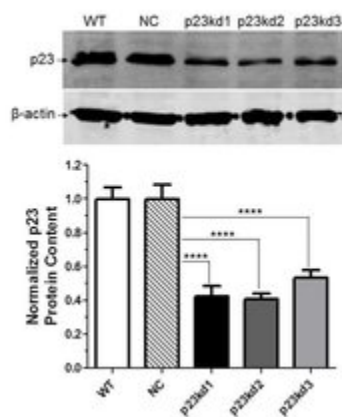


Fig. 1A



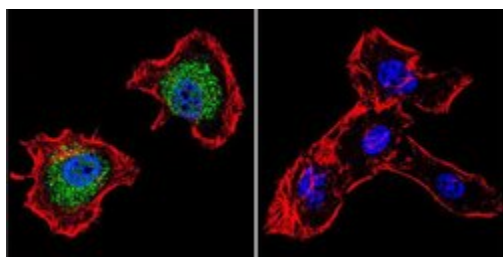
### p23 Antibody (MA3-414)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. T-47D cells were transfected with p23 siRNA and decrease in signal intensity was observed in Western Blot application using Anti-p23 Monoclonal Antibody (JJ3) (Product # MA3-414). Knockdown validation info.

### p23 Antibody (MA3-414)

Fig. 1 p23 and AhR protein levels in p23-specific knockdown stable Hepa1c1c7 cells generated by electroporation. Five cell lines examined: wild type (WT), negative control knockdown stable (NC), and p23 knockdown stable p23kd1-3. Western results showing p23 (A) and AhR (B) levels. Protein levels in WT are arbitrarily set as 1. Each lane contained 19-27 mug of whole cell extract and was normalized by beta-actin. N-19 was used to detect AhR. The plot (bottom) is the quantified data showing the means with error bars (mean  $\pm$  SD, n = 3). The images (above) are a representation of the triplicate data. C, Western results showing that V5-p23 restored the AhR levels in p23kd1-2 cells. Cells ( $3 \times 10^6$  in 0.4 ml) were transfected with either pcDNA-V5 or pcDNA-V5-p23 plasmid (30 mug in 30 mul) by electroporation (190 V, 70 ms). After incubation at 37degC for 60 h, the cells were harvested and whole cell extract was prepared for Western analysis. Each lane contained 20 mug of whole cell extract. GAPDH was used for normalization. SA210 was used to detect AhR. Knockdown validation info.

## Product Images For p23 Monoclonal Antibody (JJ3)



### p23 Antibody (MA3-414) in ICC/IF

Immunofluorescent analysis of p23 using Anti-p23 Monoclonal Antibody (JJ5) (Product # MA3-414) shows staining in HeLa Cells. p23 staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing p23 (Product # MA3-414) at a dilution of 1:500 over night at 4°C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody (Product # 35503, Goat Anti-Mouse). Images were taken at 60X magnification.

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## Western Blot (20)

PloS one

### Hsp70 cochaperones HspBP1 and BAG-1M differentially regulate steroid hormone receptor function.

"MA3-414 was used in western blot to study the functional regulation of steroid hormone receptors by the Hsp70 co-chaperones HspBP1 and GAG-1M"

Authors: Knapp RT,Wong MJ,Kollmannsberger LK,Gassen NC,Kretzschmar A,Zschocke J,Hafner K,Young JC,Rein T

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2014

Molecular biology of the cell

### Hsp90 cochaperones p23 and FKBP4 physically interact with hAgo2 and activate RNA interference-mediated silencing in mammalian cells.

"MA3-414 was used in western blot to study the interaction of p23 and FKBP4 with hAgo2 and their roles in the mechanism of mammalian cell RNAi silencing"

Authors: Pare JM,LaPointe P,Hobman TC

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2013

[View more WB references on thermofisher.com](#)

## Immunohistochemistry (4)

Frontiers in molecular neuroscience

### The Alpha Isoform of Heat Shock Protein 90 and the Co-chaperones p23 and Cdc37 Promote Opioid Anti-nociception in the Brain.

"Published figure using p23 monoclonal antibody (Product # MA3-414) in Immunohistochemistry"

Authors: Lei W,Duron DI,Stine C,Mishra S,Blagg BSJ,Streicher JM

**Species**  
Mouse

**Dilution**  
1:1000

**Year**  
2020

Cancer research

### High levels of Hsp90 cochaperone p23 promote tumor progression and poor prognosis in breast cancer by increasing lymph node metastases and drug resistance.

"MA3-414 was used in immunohistochemistry to investigate the mechanism of Hsp90 cochaperone p23 in tumor progression and poor prognosis in breast cancer"

Authors: Simpson NE,Lambert WM,Watkins R,Giashuddin S,Huang SJ,Oxelmark E,Arju R,Hochman T,Goldberg JD,Schneider RJ,Reiz LF,Soares FA,Logan SK,Garabedian MJ

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2010

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## More applications with references on thermofisher.com

ICC/IF (4)

IP (5)

PLA (1)

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