



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Anti-P23 Antibody [JJ6]

Mouse Anti-Human p23 Monoclonal IgG1  
Catalog No. SMC-156



Discovery through partnership | Excellence through quality

### Overview

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#### Product Name

p23 Antibody

#### Description

Mouse Anti-Human p23 Monoclonal IgG1

#### Species Reactivity

Human, Mouse, Chicken, Guinea Pig (*Cavia porcellus*), Rabbit, Yeast, Yeast (*Saccharomyces cerevisiae*)

#### Applications

WB, IHC, ICC/IF, IP, ELISA

#### Antibody Dilution

WB (1:2000) IHC (1:100), ICC/IF (1:100); optimal dilutions for assays should be determined by the user.

#### Host Species

Mouse

#### Immunogen Species

Human

#### Immunogen

Recombinant human full length p23 protein

#### Concentration

1 mg/ml

#### Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

### Properties

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#### Storage Buffer

PBS, 50% glycerol, 0.09% sodium azide

#### Storage Temperature

-20°C

#### Shipping Temperature

Blue Ice or 4°C

#### Purification

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Protein G Purified

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**Clonality**

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Monoclonal

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**Clone Number**

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JJ6

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**Isotype**

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IgG1

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**Specificity**

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Detects ~23kDa.

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**Cite This Product**

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Mouse Anti-Human p23 Monoclonal, Clone JJ6 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-156)

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**Certificate Of Analysis**

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0.5 µg/ml of SMC-156 was sufficient for detection of p23 in 20 µg of heat shocked cell lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

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**Biological Description**

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**Alternative Names**

co chaperone p23 Antibody, PTGES3 Antibody, TEBP Antibody, telomerase binding protein p23 Antibody, unactive progesterone receptor 23kDa Antibody, HSP90 co-chaperone Antibody, Progesterone receptor complex p23 Antibody, Cytosolic prostaglandin E2 synthase Antibody

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**Research Areas**

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Cancer, Heat Shock

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**Cellular Localization**

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Cytoplasm

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**Accession Number**

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NP\_006592.3

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**Gene ID**

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10728

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**Swiss Prot**

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Q15185

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**Scientific Background**

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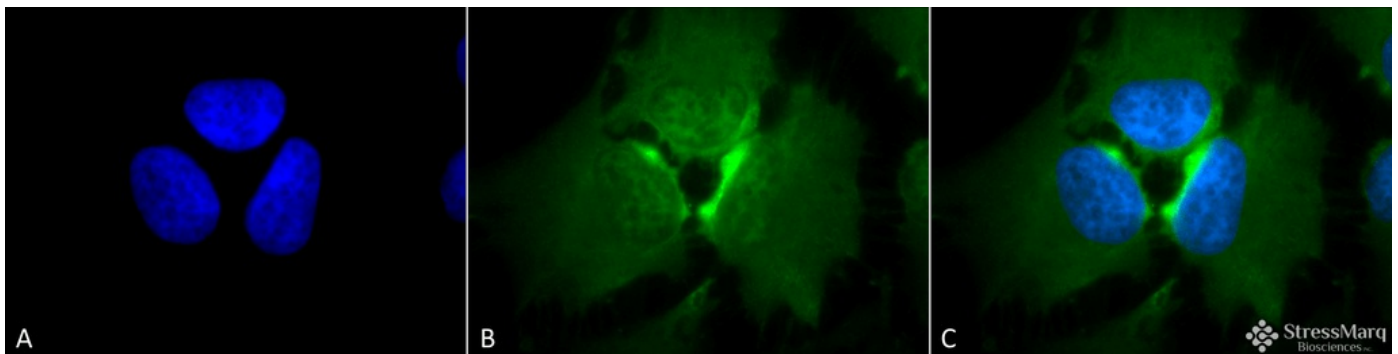
p23 is a highly conserved ubiquitous protein, known to have an important function as a cochaperone for the HSP90 chaperoning system (1). Studies have revealed that p23 is a small protein (18 to 25 kDa) with a simple structure (2, 3). p23 does not have any structural homology with any other known proteins (1). p23 was first discovered as a part of the HSP90-progesterone receptor complex along with HSP70, p54 and p50 (1). p23 is a phosphor-protein, which is highly acidic and has an aspartic acid-rich c-terminal domain (1). Numerous studies have found p23 to be associated with other client proteins like Fes tyrosine kinase (4), the heme regulated kinase HRI (5), hsf1 transcription factor (4), aryl hydrocarbon receptor (4), telomerase (6), and Hepadnavirus reverse transcriptase (7). In spite of several years of study, the exact functional significance of p23 is still not clear (8). p23 is thought to be involved in the adenosine triphosphatemediated HSP90 binding of client proteins (8). Since many HSP90 client proteins are involved in oncogenic survival signaling, a recent study has concluded p23 to be a promising target in leukemic

apoptosis (9). HSP90 and its co-chaperone p23 are certainly among the emerging anti-tumor targets in oncology.

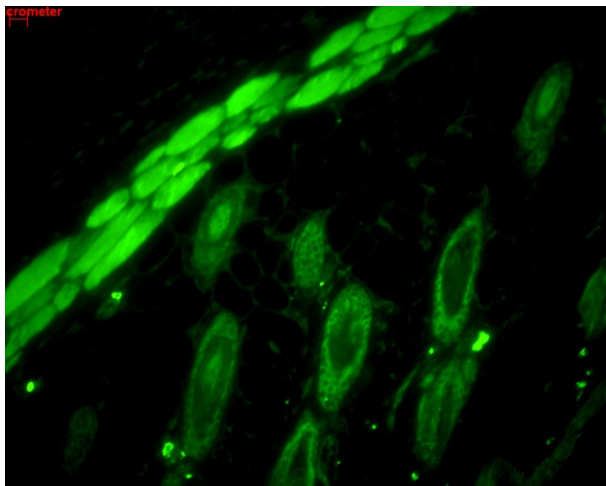
## References

1. Johnson J.L., Beito T. G., Krco C.J. & Toft D.O. (1994) *Mol Cell Biol* 14: 1956-63.
2. Weikl T., Abelmann K. & Buchner J. (1999) *J Mol Biol* 293: 685-91.
3. Weaver A.J., Sullivan W.P., Felts S.J., Owen B.A. & Toft, D.O. (2000) *J Biol Chem* 275: 23045-52.
4. Nair S.C., et al. (1996) *Cell Stress Chaperones* 1: 237-50.
5. Xu Z., et al. (1997) *Eur J Biochem* 246, 461-70.
6. Holt S.E., et al. (1999) *Genes Dev* 13: 817-26.
7. Hu J., Toft D., Anselmo D. & Wang X. (2002) *J Virol* 76: 269-79.
8. Felts, S.J. & Toft D.O. (2003) *Cell Stress Chaperones* 8: 108-13.
9. Gausdal G., Gjertsen B.T., Fladmark K.E., Demol H., Vandekerckhove J. & Doskeland S.O. (2004) *Leukemia*.

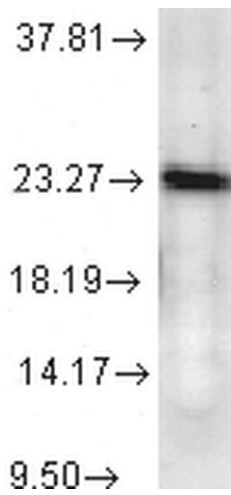
## Product Images



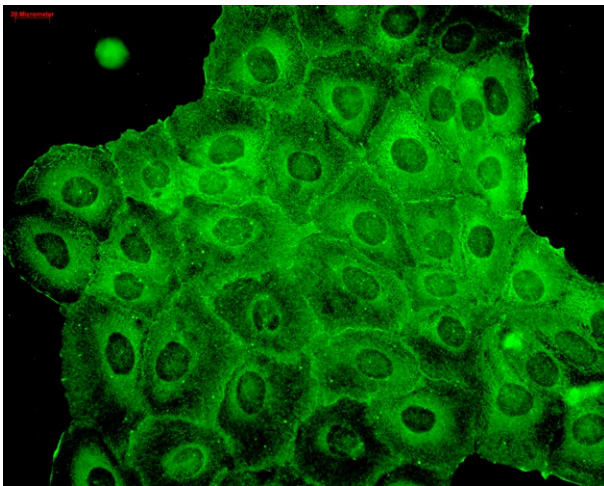
Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-p23 Monoclonal Antibody, Clone JJ6 (SMC-156). Tissue: Heat Shocked HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Mouse Anti-p23 Monoclonal Antibody (SMC-156) at 1:100 for 12 hours at 4°C. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Cytoplasm. Magnification: 100x. (A) DAPI (blue) nuclear stain. (B) Anti-p23 Antibody. (C) Composite.



Immunohistochemistry analysis using Mouse Anti-p23 Monoclonal Antibody, Clone JJ6 (SMC-156). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-p23 Monoclonal Antibody (SMC-156) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Epidermal, dermal, HF, muscle staining. Bright dermal staining.



Western Blot analysis of Human Cell lysates showing detection of p23 protein using Mouse Anti-p23 Monoclonal Antibody, Clone JJ6 (SMC-156). Load: 15 µg protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-p23 Monoclonal Antibody (SMC-156) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-p23 Monoclonal Antibody, Clone JJ6 (SMC-156). Tissue: HaCaT cells. Species: Human. Fixation: Cold 100% methanol for 10 minutes at -20°C. Primary Antibody: Mouse Anti-p23 Monoclonal Antibody (SMC-156) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Uniform epidermal staining with some evidence of cell borders.

## Product Citations (4)

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### Western Blot

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**Ganetespib (STA-9090), a Nongeldanamycin HSP90 Inhibitor, Has Potent Antitumour Activity in In Vitro and In Vivo Models of Non-Small Cell Lung Cancer.**

Shimamura, T. et al. (2012) Clin Cancer Res. 18, 4973-4985.

**PubMed ID:** 22806877 **Reactivity:** Human **Applications:** Western Blot

### Other Citations

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**Biomarker Analysis with Grating Coupled Surface Plasmon Coupled Fluorescence.**

Mendoza, A., Dias, J.A., Zeltner, T. and Lawrence, D.A. (2014) J Adv Bio & Biotech. 1(1): 1-22.

**PubMed ID:** **Reactivity:** Human **Applications:** Antibody Microarray

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Shimamura, T. et al. (2012) Clin Cancer Res. 18, 4973-4985.

**PubMed ID:** 22806877 **Reactivity:** Human **Applications:** Immunoprecipitation

## Reviews

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Based on validation through cited publications.



**StressMarq Biosciences**

June 14, 2016: