

P23 (D-16): sc-66254

BACKGROUND

P23, also known as PTGES3 (prostaglandin E synthase 3) or TEBP (telomerase-binding protein p23), is a ubiquitously expressed protein that functions as a cochaperone and plays an important role in signal transduction. One of several proteins in the HSP 90-based molecular chaperone complex, P23 promotes the breakdown of transcriptional regulatory complexes by disrupting receptor-mediated transcriptional activation. P23 acts in a hormone-dependent manner to chaperone estrogen receptor α (ER α), a steroid complex, to its mature form and to regulate the expression of ER α -related genes. Localized to the cytoplasm, P23 interacts with the glucocorticoid receptor (GR) and, through disassembly of the GR transcription machinery, is thought to inhibit GR-dependent transcription. The involvement of P23 in various steroid receptor-mediated pathways suggests close involvement in signal transduction and regulation of cellular processes. Upregulation of P23 is implicated in the invasion and metastasis of various cancers.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PTGES3 (human) mapping to 12q13.3; Ptges3 (mouse) mapping to 10 D3.

SOURCE

P23 (D-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of P23 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-66254 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

P23 (D-16) is recommended for detection of P23 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

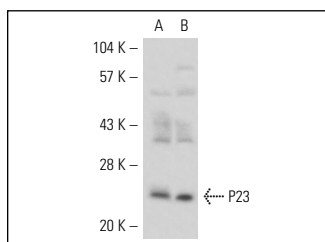
P23 (D-16) is also recommended for detection of P23 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for P23 siRNA (h): sc-62741 and P23 siRNA (m): sc-62742; and as shRNA Plasmid control antibody for P23 shRNA Plasmid (h): sc-62741-SH and P23 shRNA Plasmid (m): sc-62742-SH.

Molecular Weight of P23: 23 kDa.

Positive Controls: P23 (h): 293T Lysate: sc-174627, P23 (h2): 293T Lysate: sc-174629 or P23 (m): 293T Lysate: sc-122310.

DATA



P23 (D-16): sc-66254. Western blot analysis of P23 expression in heat shock-treated HeLa (A) and NIH/3T3 (B) whole cell lysates.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.



Try **P23 (JJ6): sc-101496** or **P23 (B-5): sc-377392**, our highly recommended monoclonal alternatives to P23 (D-16).