

Technical Data Sheet

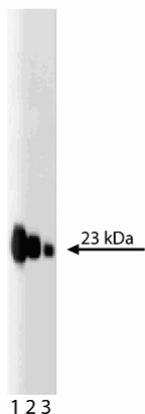
Purified Mouse Anti-p23

Product Information

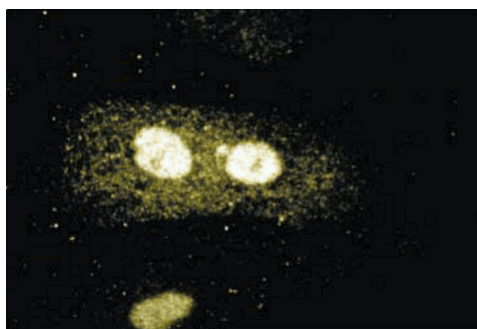
Material Number:	612320
Size:	50 µg
Concentration:	250 µg/ml
Clone:	16/p23
Immunogen:	Mouse p23 aa. 1-94
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Mouse Tested in Development: Rat
Target MW:	23 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Molecular chaperones are a diverse group of proteins that modulate polypeptide stability through a process of ATP hydrolysis and the interaction with exposed hydrophobic residues on substrate proteins. Members of the heat shock protein (Hsp) group of chaperones were so named because their expression is rapidly induced upon heat shock or stress. Hsp90 and Hsp70 form complexes with chaperone accessory factors, such as TCP-1, Hsp104, HiP, immunophilins (FKBP52 and FKBP51), HOP, Hsp40, Bag-1, and p23. A complex of Hsp90, Hsp70, p48, Cyp-40, and p60 is known as the steroid aporeceptor complex that maintains a high affinity binding site in unbound intracellular hormone receptors. p23 is a widely expressed chaperone-associated protein that interacts with the ligand-bound steroid holoreceptor complex, and regulates holoreceptor-mediated transcriptional activity. In addition, p23/Hsp90 complexes may regulate telomerase complex assembly, and remain associated with the active telomerase holoenzyme. Thus, p23 is a chaperone accessory factor involved in the assembly of protein complexes, such as steroid hormone receptor and telomerase complexes.



Western blot analysis of p23 on a mouse testis lysate.
Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the mouse anti-p23 antibody.



Immunofluorescence staining of normal rat kidney cells.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20°C.

BD Biosciences

bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	888.259.0187	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

For country-specific contact information, visit bdbiosciences.com/how_to_order/

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

BD, BD Logo and all other trademarks are the property of Becton, Dickinson and Company. ©2008 BD



Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Forsythe HL, Jarvis JL, Turner JW, Elmore LW, Holt SE. Stable association of hsp90 and p23, but Not hsp70, with active human telomerase. *J Biol Chem.* 2001; 276(19):15571-15574.(Biology)
Freeman BC, Felts SJ, Toft DO, Yamamoto KR. The p23 molecular chaperones act at a late step in intracellular receptor action to differentially affect ligand efficacies. *Genes Dev.* 2000; 14(4):422-434.(Biology)
Freeman BC, Toft DO, Morimoto RI. Molecular chaperone machines: chaperone activities of the cyclophilin Cyp-40 and the steroid aporeceptor-associated protein p23. *Science.* 1996; 274(5293):1718-1720.(Biology)
Johnson JL, Beito TG, Krco CJ, Toft DO. Characterization of a novel 23-kilodalton protein of unactive progesterone receptor complexes. *Mol Cell Biol.* 1994; 14(3):1956-1963.(Biology)