Technical Data Sheet

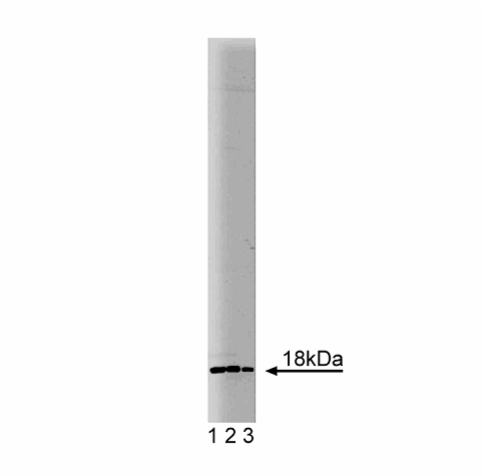
Purified Mouse Anti-Ubc9

Product Information

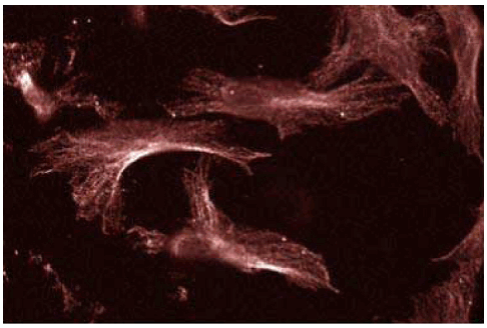
Material Number:	**610748**
Size:	50 µg
Concentration:	250 µg/ml
Clone:	50/Ubc9
Immunogen:	Human Ubc9 aa. 26-156
Isotype:	Mouse IgG2a
Reactivity:	QC Testing: Human Tested in Development: Dog, Rat, Mouse, Chicken
Target MW:	18 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Progression of the mammalian cell cycle is primarily regulated by phosphorylation/dephosphorylation and synthesis/degradation of many key proteins. Ubiquitin, a soluble protein of 76 amino acids, is enzymatically attached to an e-NH2-Lys in a target protein. Ubiquitination is a hallmark for rapid protein degradation of the target protein in the proteosome (a cytoplasmic complex of proteases). Human homologs of the yeast ubiquitin-conjugating enzymes (Ubc) have been reported, including Ubc9. Ubc9 is 158 amino acids with an apparent molecular weight of 18kDa. Although ubiquitously expressed, the highest levels of Ubc9 are found in testis and thymus. Ubc9 was localized to the synaptonemal complex in male mouse sex chromosomes. Furthermore, Ubc9 interacts with the recombination protein Rad51, thus suggesting an important role for Ubc9 during meiosis.



Western blot analysis of Ubc9 on human endothelial lysate. *Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of Ubc9.*



Human Endothelial

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/**

Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development
Immunohistochemistry	Tested During Development
Immunoprecipitation	Not Recommended

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

Buschmann T, Lerner D, Lee CG, Ronai Z. The Mdm-2 amino terminus is required for Mdm2 binding and SUMO-1 conjugation by the E2 SUMO-1 conjugating enzyme Ubc9. *J Biol Chem.* 2001; 276(44):40389-40395.(Clone-specific: Western blot)

Kovalenko OV, Plug AW, Haaf T. Mammalian ubiquitin-conjugating enzyme Ubc9 interacts with Rad51 recombination protein and localizes in synaptonemal complexes. 1996; 93(7):2958-2963.(Biology)

Saitoh H, Pizzi MD, Wang J. Perturbation of SUMOlation enzyme Ubc9 by distinct domain within nucleoporin RanBP2/Nup358. *J Biol Chem.* 2002; 277(7):4755-4763.(Clone-specific: Immunofluorescence, Western blot)

Wang ZY, Qiu QQ, Seufert W. Molecular cloning of the cDNA and chromosome localization of the gene for human ubiquitin-conjugating enzyme 9. *J Biol Chem.* 1996; 271(40):24811-24816.(Biology)