**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
- **QC Testing:** Human
  - Tested in Development: Dog, Rat, Mouse, Chicken
- **Reactivity:** 18 kDa
- **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.

**Preparation and Storage**

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


**Human Endothelial**

18kDa 1 2 3

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Application

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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
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

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)