

## Anti-calf thymus ATPaseA [4B10-A3-E4] Bulk Size Ab02913-1.1-BT

**Isotype and Format:** Mouse IgG1, Kappa

**Clone Number:** 4B10-A3-E4

**Alternative Name(s) of Target:** SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A-like protein 1; HepA-related protein; Sucrose nonfermenting protein 2-like 1

**UniProt Accession Number of Target Protein:** Q9TTA5

**Published Application(s):** functional assay, WB, ELISA

**Published Species Reactivity:** Cow

**Immunogen:** The mouse version of this antibody was generated by immunizing mice with immunopurified calf thymus ATPaseA.

**Specificity:** This antibody is specific for calf thymus ATPase A and recognizes bovine, human, and mouse homologs. Calf ATPaseA is a TP-dependent annealing helicase that binds selectively to fork DNA relative to ssDNA or dsDNA and catalyzes the rewinding of the stably unwound DNA. The antibody also shows a reaction to the denatured protein.

**Application Notes:** The mouse version of this antibody was used for a western blot on calf DNA-dependent ATPase A isolated from calf thymus using immunoprecipitation (Mesner et al, 1993; pmid:8394114). To identify the mouse version of this antibody an ELISA on native ATPase A was preformed. Furthermore, a western blot was preformed on bacteriophage T4 gene 44/62 and 45 proteins. It showed a strong reaction (Mesner et al, 1991; pmid:1720977). The ATPase A activity under either Ca<sup>2+</sup>-activated or Mg<sup>3+</sup>-actin-activated conditions were determined in the presence of this antibody. No change in activity was noticed (Eldin et al, 1993; pmid:8448113).

**Antibody First Published in:** Mesner et al. DNA-dependent adenosinetriphosphatase A is the eukaryotic analogue of the bacteriophage T4 gene 44 protein: immunological identity of DNA replication-associated ATPases Biochemistry. 1991 Dec 10;30(49):11490-4. [PMID:1720977](#)

**Note on publication:** The construction of three stable murine hybridomas that secrete monoclonal antibodies which recognize calf thymus DNA-dependent adenosinetriphosphatase A is reported. All three of the antibodies react specifically with calf thymus ATPase A and the gene 44 protein from the bacteriophage T4 DNA-dependent ATPase.

## Product Form

**Size:**

1 mg Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**Supplied In:** PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.