

**Antibody to bovine SMARCAL1 (ATPaseA) (2D1-E1-B12)**  
MOUSE MONOCLONAL

**Catalog Number:** AB-V11  
**Quantity:** 100 micrograms  
**Format:** PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4), no preservative.  
**Host:** Mouse  
**Clone:** 2D1-E1-B12  
**Immunogen:** immunopurified calf thymus ATPaseA

**Background:** ATPaseA, also known as SMARCAL1, is a DNA-dependent ATPase that hydrolyzes ATP in the presence of DNA. Proteins in this family are classified as helicases due to their ability to utilize ATP hydrolysis to unwind DNA, facilitating replication. The eukaryotic ATPase targeted by this monoclonal antibody shares sequence homology with the ATPase from T4 bacteriophages, resulting in cross-reactivity with epitopes common to both proteins.

**Specificity & Preparation:** Mouse antibody generated against immunopurified calf thymus ATPaseA and recognizes native bovine, human, and mouse homologs.

**Usage:** Applications include immunoprecipitation and western blot. Working dilutions must be determined by end user.

**Storage:** Store antibody at -20°C for one year. Avoid repeated freezing and thawing. Gently spin down material 5-10 seconds in a microfuge before use.

**Selected References:**

1. Mesner LD, Sutherland WM, Hockensmith JW (1991) DNA-dependent adenosinetriphosphatase A is the eukaryotic analogue of the bacteriophage T4 gene 44 protein: immunological identity of DNA replication-associated ATPases. *Biochemistry* 30(49):11490-11494. doi: 10.1021/bi00113a002 PMID: 1720977

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