

**Antibody to bovine SMARCAL1 (ATPaseA) (3B2-A2-E5)**
MOUSE MONOCLONAL

Catalog Number: AB-V12
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: 3B2-A2-E5
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 proteins containing both a polynucleotide binding site and a nucleotide binding site (ex. DNA-dep ATPases, polymerases, ligases).

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, Truman PA, Hockensmith JW (1993) DNA-dependent adenosinetriphosphatase A: immunoaffinity purification and characterization of immunological reagents. *Biochemistry* 32 (30):7772-7778. doi: 10.1021/bi00081a024 PMID: 8394114

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