

**Antibody to LacI (9A5)**
MOUSE MONOCLONAL

Catalog Number: AB-V79
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
Isotype: IgG1
Clone: 9A5
Immunogen: E.coli LacI

Background: The lac repressor is a DNA-binding protein that regulates the expression of genes required for lactose metabolism in bacteria. In the absence of lactose, the repressor binds to the lac operon, preventing transcription and conserving cellular resources. When lactose is present, it is converted to allolactose, which binds the lac repressor and inhibits its ability to bind DNA. This release of repression allows transcription of genes necessary for lactose uptake and utilization.

Specificity & Preparation: This Mouse IgG1 antibody is generated against E.coli LacI and recognizes LacI and recombinant proteins containing the LacI tag.

Usage: Applications include western blot, immunoprecipitation, immunohistochemistry. 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. Cronin CA, Gluba W, Scrable H (2001) The lac operator-repressor system is functional in the mouse. *Genes Dev* 15(12):1506-1517. doi: 10.1101/gad.892001 PMID: 11410531

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