Docket #: S01-245G

# **Anti-Pknox monoclonal antibody**

Researchers in the laboratory of Dr. Michael Cleary at Stanford University have developed anti-Pknox monoclonal antibodies to study transcriptional regulation, embryonic development, and tissue homeostasis. The Meis/Pknox (also known as Prep) subfamily of TALE (three-amino acid loop extension)-class homeodomian proteins heterodimerze with Pbx proteins to form trimeric complexes with Hox proteins on appropriate DNA sites that regulate developmental gene expression. The anti-Pknox antibodies could be used in research related to leukemia, embryonic development, and tissue homeostasis.

## Applications

- Research related to:
  - leukemia
  - embryonic development
  - tissue homeostasis

## **Publications**

 Jacobs Y, Schnabel CA, Cleary ML., <u>"Trimeric association of Hox and TALE</u> <u>homeodomain proteins mediates Hoxb2 hindbrain enhancer activity.</u>" *Mol Cell Biol.* 1999 Jul;19(7):5134-42.

#### Innovators

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