Anti-Prox1

Catalog Number: 1685-PROX1  Size: 100 µl  Isotype: IgG1  Clone: 5G10

Product Description: Mouse monoclonal antibody

Applications: IHC: 1:1,000

Antigen: Recombinant human Prox1 protein.

Species Reactivity: The antibody has been directly tested for reactivity in human, rat, mouse and chicken. It is expected to have wide species cross-reactivity.

Biological Significance: Prox1 (Prospero-related homeobox 1) is a divergent homeogene that regulates cell proliferation, fate determination and differentiation during vertebrate embryonic development. The protein is expressed in the developing lens and is also detected in embryonic brain, lung, liver and kidney; while in adult it is more abundant in heart and liver than in brain, skeletal muscle, kidney and pancreas (Chen et al., 2006). Prox1 is thought to play a fundamental role in early development of the CNS and may regulate gene expression and development of postmitotic undifferentiated young neurons (Misra et al., 2008).

Anti-Prox1

Immunohistochemical staining of rat dentate gyrus showing specific immunolabeling of the prox1 protein. Photo courtesy of Justin Kievits and Teresa Milner, Weill Cornell Medical College.
Purification Method: Protein G purified culture supernatant.

Antibody Specificity: Specifically labels prox1 in formalin-fixed, paraffin-embedded tissue.

Quality Control Tests: IHC performed on each lot.

References: