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Datasheet for 200-301-E18

PROX1 Antibody

Overview

Description:	Anti-PROX1 (MOUSE) Monoclonal Antibody - 200-301-E18
Item No.:	200-301-E18
Size:	100 µL
Applications:	IHC
Reactivity:	Human, Mouse, Rat, Chicken
Host Species:	Mouse

Product Details

Background:	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. 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. Anti-Prox1 Monoclonal Antibody is suitable for investigators involved in Cell Signaling, Neuroscience, and Signal Transduction research.
Synonyms:	Prospero homeobox protein 1, Homeobox prospero-like protein PROX1
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	5G10
Format:	IgG1

Target Details

Gene Name:	PROX1
Reactivity:	Human, Mouse, Rat, Chicken
Immunogen Type:	Recombinant Protein

Immunogen:	Anti-Prox 1 Monoclonal Antibody was produced in mouse by repeated immunizations with recombinant human Prox1 protein.
Purity/Specificity:	Anti-Prox1 is directed against human Prox1 protein. This antibody is Protein G purified from cell culture supernatant. Reactivity is expected from chicken, mouse and rat.
Relevant Links:	• UniProtKB - Q92786 • GeneID - 5629 • UniProtKB - Q92786.2

Application Details

Tested Applications:	IHC
Application Note:	Anti-Prox1 (Mouse) antibody has been tested by IHC. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IHC:	1:1000

Formulation

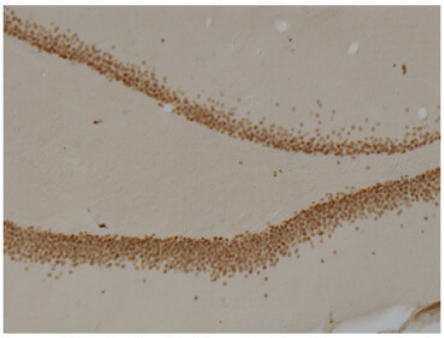
Physical State:	Liquid
Concentration:	Titrated value sufficient to run approximately 10 experiments.
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Preservative:	None
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images

Anti-Prox1



Immunohistochemical staining of rat dentate gyrus showing specific immunolabeling of the Prox-1 protein. Photo courtesy of Justin Kievits and Theresa Milner, Weill Cornell Medical college.

Immunohistochemistry
Immunohistochemistry of Mouse anti-Prox1 antibody. Tissue: embryonic brain, lung, liver, and kidney. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Prox1 antibody at 1:1000 for 1 h at RT. Secondary antibody: Peroxidase mouse secondary antibody at 1:10,000 for 45 min at RT. Localization: Prox1 is in the rat dentate gyrus. Staining: Showing specific immunolabeling of the prox1 protein.

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