

Anti-PROX1 Rabbit Monoclonal Antibody

Catalog # ABO13748

Product Information

Application	WB
Primary Accession	Q92786
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid
Description	Anti-PROX1 Rabbit Monoclonal Antibody . Tested in WB application. This antibody reacts with Human.

Additional Information

Gene ID	5629
Other Names	Prospero homeobox protein 1, Homeobox prospero-like protein PROX1, PROX-1, PROX1
Calculated MW	83203
Application Details	WB 1:500-1:2000
Subcellular Localization	Nucleus. RORG promotes its nuclear localization..
Tissue Specificity	Most actively expressed in the developing lens. Detected also in embryonic brain, lung, liver and kidney. In adult, it is more abundant in heart and liver than in brain, skeletal muscle, kidney and pancreas..
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: AOGA-16
Immunogen	A synthesized peptide derived from human PROX1
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

Name	PROX1
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Function

Transcription factor involved in developmental processes such as cell fate determination, gene transcriptional regulation and progenitor cell regulation in a number of organs. Plays a critical role in embryonic development and functions as a key regulatory protein in neurogenesis and the development of the heart, eye lens, liver, pancreas and the lymphatic system. Involved in the regulation of the circadian rhythm. Represses: transcription of the retinoid-related orphan receptor ROR γ , transcriptional activator activity of RORA and ROR γ and the expression of RORA/G-target genes including core clock components: BMAL1, NPAS2 and CRY1 and metabolic genes: AVPR1A and ELOVL3.

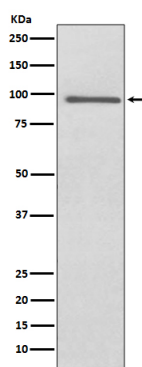
Cellular Location

Nucleus {ECO:0000250 | UniProtKB:P48437}. Note=ROR γ promotes its nuclear localization. {ECO:0000250 | UniProtKB:P48437}

Tissue Location

Most actively expressed in the developing lens. Detected also in embryonic brain, lung, liver and kidney. In adult, it is more abundant in heart and liver than in brain, skeletal muscle, kidney and pancreas.

Images



Western blot analysis of PROX1 expression in HepG2 cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.