

Product datasheet

Recombinant Human PROX1 protein ab54337

1 Image

Description

<b>Product name</b>	Recombinant Human PROX1 protein	
<b>Purity</b>	> 95 % SDS-PAGE. >95% by SDS-PHAGE & silver stain.	
<b>Expression system</b>	Escherichia coli	
<b>Accession</b>	<a href="#">Q92786</a>	
<b>Protein length</b>	Protein fragment	
<b>Animal free</b>	No	
<b>Nature</b>	Recombinant	
<b>Species</b>	Human	
<b>Sequence</b>	MAEGLSLSLIKSECGDLQDMSEISPYSGSAMQEGLSPNHL KKAKLMFFYT RYPSSNMLKTYFSDVKFNRCITSQLIKWFSNFREFYYIQME KYARQAIND GVTSTEELSITRDCELYRALNMHYNKANDFEVPERFLEVA QITLREFFNA IAGKDVDPSWKKAMKVKICKLDSEVPEIFKSPNCLQELLHE	
<b>Predicted molecular weight</b>	22 kDa	
<b>Amino acids</b>	547 to 737	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab54337** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE
<b>Form</b>	Lyophilized
<b>Additional notes</b>	This product can be used as a positive control e.g. in Western analysis.

Preparation and Storage

<b>Stability and Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
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Constituent: PBS

## Reconstitution

Reconstitute in water to a concentration not lower than 50 µg/ml.

## General Info

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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 RORG, transcriptional activator activity of RORA and RORG and the expression of RORA/G-target genes including core clock components: ARNTL/BMAL1, NPAS2 and CRY1 and metabolic genes: AVPR1A and ELOVL3.

### 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.

### Sequence similarities

Belongs to the Prospero homeobox family.

Contains 1 Prospero-type homeobox DNA-binding domain.

### Domain

The prospero-type homeobox DNA-binding domain is essential for repression of RORG transcriptional activator activity.

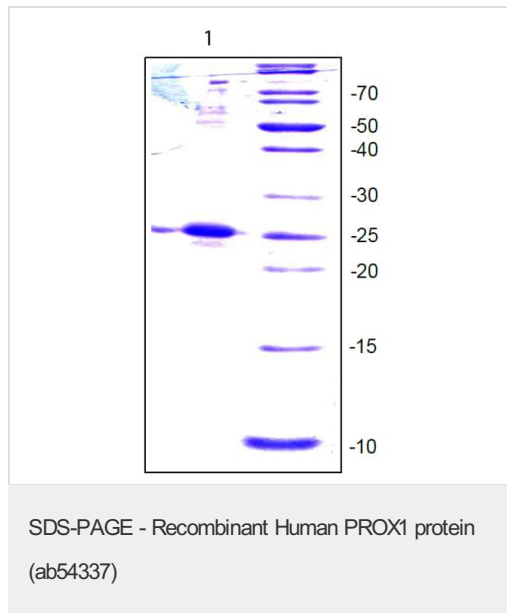
### Cellular localization

Nucleus. RORG promotes its nuclear localization.

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## Images

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SDS-PAGE analysis of recombinant human PROX1 protein fragment (ab54337). The sample was loaded in 15% SDS-polyacrylamide gel under reducing conditions and stained with Coomassie blue.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

**Our Promise to you: Quality guaranteed and expert technical support**

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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