

## **BarX1 Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP59024

## **Product Information**

**Application** IHC-P, IHC-F, IF, E

Primary Accession Q9HBU1

**Reactivity** Rat, Pig, Bovine

Host Rabbit
Clonality Polyclonal
Calculated MW 27298
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived from human BarX1

Epitope Specificity 185-254/254

**Isotype** IgG

**Purity** affinity purified by Protein A

**Buffer** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Nucleu:

**SIMILARITY** Belongs to the BAR homeobox family. Contains 1 homeobox DNA-binding

domain.

**Important Note** This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

**Background Descriptions** BarX1 belongs to the Bar subclass of the homeobox gene family. The function

of this gene has not yet been determined; however, studies in the mouse and

chick homolog suggest a role in developing teeth and craniofacial

mesenchyme of neural crest origin. The role of these homologs implicates the human gene as a candidate for unmapped disorders involving tooth and jaw

development.

## **Additional Information**

**Gene ID** 56033

Other Names Homeobox protein BarH-like 1, BARX1

**Target/Specificity** Widely expressed. Expressed at higher levels in testis and heart. Detected in

craniofacial tissue and adult iris, but not in lymphocytes, fibroblasts, choroid

retina, retinal pigment epithelium, kidney, or fetal liver.

**Dilution** IHC-P=1:100-500,IHC-F=1:100-500,IF=1:50-200,ELISA=1:5000-10000

Format 0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

**Storage** Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

## **Protein Information**

Name BARX1

**Function** Transcription factor, which is involved in craniofacial development, in

odontogenesis and in stomach organogenesis. May have a role in the differentiation of molars from incisors. Plays a role in suppressing

endodermal Wnt activity (By similarity). Binds to a regulatory module of the

NCAM promoter.

Cellular Location Nucleus.

**Tissue Location** Widely expressed. Expressed at higher levels in testis and heart. Detected in

craniofacial tissue and adult iris, but not in lymphocytes, fibroblasts, choroid

retina, retinal pigment epithelium, kidney, or fetal liver

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