# FOXI1 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | FOXI1, Polyclonal Antibody |
| **Full Product Name** | FOXI1 Antibody, HRP conjugated |
| **Product Gene Name** | anti-FOXI1 antibody |
| **Product Synonym Names** | Forkhead box protein I1; Forkhead-related protein FKHL10; Forkhead-related transcription factor 6; FREAC-6; Hepatocyte nuclear factor 3 forkhead homolog 3; HFH-3; HNF-3/fork-head homolog 3; FOXI1; FKHL10; FREAC6 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Liquid |
| **Purity/Purification** | >95%, Protein G purified |
| **Preparation and Storage** | Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze. |
| **Matching Pairs** | Unconjugated Antibody: FOXI1 (MBS7052845)<br>HRP Conjugated Antibody: FOXI1 (MBS7052846) |
| **Molecular Weight** | 30,814 Da |
| **OMIM** | BC029778 mRNA |
| **3D Structure** | ModBase 3D Structure for Q12951 |
| **Immunogen** | Recombinant Human Forkhead box protein I1 protein (183-343AA) |
| **Conjugation** | HRP |
| **Preservative** | 0.03% Proclin 300 |
| **Constituents** | 50% Glycerol, 0.01M PBS, pH 7.4 |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-FOXI1 antibody** | ELISA (EIA) |
| **Related Product Information for anti-FOXI1 antibody** | Transcriptional activator required for the development of normal hearing, sense of balance and kidney function. Required for the expression of SLC26A4/PDS, JAG1 and COCH in a subset of epithelial cells and the development of the endolymphatic system in the inner ear. Also required for the expression of SLC4A1/AE1, SLC4A9/AE4, ATP6V1B1 and the differentiation of intercalated cells in the epithelium of distal renal tubules (By similarity). |
| **Other Notes** | Small volumes of anti-FOXI1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for FOXI1 purchase** | MBS7052846 is an antibody targeting FOXI1. Also known as FOXI1 Antibody, HRP conjugated. Reactive in Human. Host: Rabbit. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FOXI1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 21618327 |
| **NCBI GeneID** | 2299 |
| **NCBI Accession #** | NP_036320.2 |
| **UniProt Primary Accession #** | Q12951 |
| **UniProt Secondary Accession #** | Q14518; Q66SR7; Q8N6L8 |
| **UniProt Related Accession #** | Q12951 |
| **GenBank Nucleotide #** | NM_012188.4 |
| **NCBI Official Full Name** | forkhead box protein I1 isoform a |
| **NCBI Official Synonym Full Names** | forkhead box I1 |
| **NCBI Official Symbol** | FOXI1 |
| **NCBI Official Synonym Symbols** | HFH3; FKH10; HFH-3; FKHL10; FREAC6; FREAC-6 |
| **UniProt Protein Name** | Forkhead box protein I1 |
| **UniProt Synonym Protein Names** | Forkhead-related protein FKHL10; Forkhead-related transcription factor 6; FREAC-6; Hepatocyte nuclear factor 3 forkhead homolog 3; HFH-3; HNF-3/fork-head homolog 3 |
| **Protein Family** | Forkhead box protein |
| **UniProt Gene Name** | FOXI1 |
| **UniProt Synonym Gene Names** | FKHL10; FREAC6; FREAC-6; HFH-3; HNF-3/fork-head homolog 3 |
| **NCBI Protein Information** | forkhead box protein I1 |
| **NCBI Summary for FOXI1** | This gene belongs to the forkhead family of transcription factors, which is characterized by a distinct forkhead domain. This gene may play an important role in the development of the cochlea and vestibulum, as well as in embryogenesis. The encoded protein has been found to be required for the transcription of four subunits of a proton pump found in the inner ear, the kidney, and the epididymis. Mutations in this gene have been associated with deafness, autosomal recessive 4. [provided by RefSeq, Jan 2017] |
| **UniProt Comments for FOXI1** | FOXI1: Transcriptional activator required for the development of normal hearing, sense of balance and kidney function. Required for the expression of SLC26A4/PDS, JAG1 and COCH in a subset of epithelial cells and the development of the endolymphatic system in the inner ear. Also required for the expression of SLC4A1/AE1, SLC4A9/AE4, ATP6V1B1 and the differentiation of intercalated cells in the epithelium of distal renal tubules. 2 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: DNA-binding<br><br>Chromosomal Location of Human Ortholog: 5q35.1<br><br>Cellular Component: nucleus<br><br>Molecular Function: sequence-specific DNA binding; transcription factor activity<br><br>Biological Process: positive regulation of transcription from RNA polymerase II promoter<br><br>Disease: Deafness, Autosomal Recessive 4, With Enlarged Vestibular Aqueduct; Pendred Syndrome |
| **Research Articles on FOXI1** | **1.** We found no evidence for a significant association between mutations of KCNJ10 and FOXI1 with SLC26A4 in Pendred syndrome/enlarged vestibular aqueducts. |
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