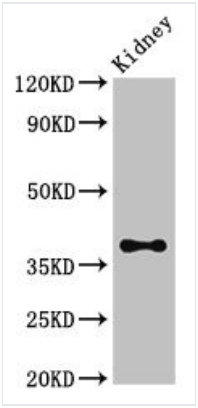
ATOH1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Atoh1, Polyclonal Antibody
Full Product Name	Atoh1 Antibody
Product Gene Name	anti-Atoh1 antibody
Product Synonym Names	Protein atonal homolog 1; Helix-loop-helix protein mATH-1; mATH1; Atoh1; Ath1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
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.
Matching Pairs	Unconjugated Antibody: Atoh1 (MBS7006166) Biotin Conjugated Antibody: Atoh1 (MBS7000538)
Matching Pairs	Unconjugated Antibody: Atoh1 (MBS7006166) FITC Conjugated Antibody: Atoh1 (MBS7004067)
Matching Pairs	Unconjugated Antibody: Atoh1 (MBS7006166) HRP Conjugated Antibody: Atoh1 (MBS7006591)
Molecular Weight	37,854 Da
3D Structure	ModBase 3D Structure for P48985
Immunogen	Recombinant mouse Protein atonal homolog 1 protein
Conjugation	Non-conjugated
Storage Buffer	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-Atoh1 antibody	ELISA (EIA)
Related Product Information for anti-Atoh1 antibody	Transcriptional regulator. Activates E box-dependent transcription in collaboration with TCF3/E47, but the activity is completely antagonized by the negative regulator of neurogenesis HES1. Plays a role in the differentiation of subsets of neural cells by activating E box-dependent transcription.
Other Notes	Small volumes of anti-Atoh1 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 Atoh1 purchase	MBS7006166 is an antibody targeting Atoh1. Also known as Atoh1 Antibody. Reactive in Mouse. Host: Rabbit.



Western Blot (WB) of anti-Atoh1 antibody
Western BlotPositive WB detected in: Mouse kidney tissueAll lanes: Atoh1 antibody at 3.4ug/mlSecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 38 KDaObserved band size: 38 KDa

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Atoh1. It may not necessarily be applicable to this product.

NCBI GI #	6680742
NCBI GeneID	11921
NCBI Accession #	NP_031526.1
UniProt Primary Accession #	P48985
UniProt Related Accession #	P48985
GenBank Nucleotide #	NM_007500.4
NCBI Official Full Name	protein atonal homolog 1
NCBI Official Synonym Full Names	atonal bHLH transcription factor 1
NCBI Official Symbol	Atoh1
NCBI Official Synonym Symbols	Hath1; Math1; MATH-1; bHLHa14
UniProt Protein Name	Protein atonal homolog 1
UniProt Synonym Protein Names	Helix-loop-helix protein mATH-1; mATH1
Protein Family	Protein atonal
UniProt Gene Name	Atoh1
UniProt Synonym Gene Names	Ath1; mATH1
UniProt Entry Name	ATOH1_MOUSE
NCBI Protein Information	protein atonal homolog 1

UniProt Comments for Atoh1	ATOH1: a conserved transcription factor that regulates secretory cell differentiation in colonic epithelium. Activates E box-dependent transcription in collaboration with TCF3/E47, but the activity is completely antagonized by the negative regulator of neurogenesis HES1. May play a role in the differentiation of subsets of neural cells by activating E box- dependent transcription . Efficient DNA binding requires dimerization with another bHLH protein. Loss of ATOH1 expression in the colon of mice initiates colon cancer. ATOH1 has been silenced in most human colon cancers, and reactivation of this gene in cultured human colon cancer cells is anti-proliferative and induces apoptosis. Protein type: Transcription factor; Cell development/differentiation; DNA-binding Cellular Component: nucleus Molecular Function: chromatin DNA binding; DNA binding; protein binding; protein dimerization activity; sequence-specific DNA binding Biological Process: auditory receptor cell differentiation; auditory receptor cell fate determination; auditory receptor cell fate specification; axon guidance; brain development; cell differentiation; cerebral cortex development; inner ear development; inner ear morphogenesis; multicellular organismal development; negative regulation of apoptosis; nervous system development; neuron differentiation; neuron migration; Notch signaling pathway; positive regulation of auditory receptor cell differentiation; positive regulation of neuron differentiation; positive regulation of transcription from RNA polymerase II promoter; regulation of neuron differentiation; regulation of transcription, DNA-dependent; transcription, DNA-dependent
Research Articles on Atoh1	**1.** The retrotrapezoid nucleus neurons expressing Atoh1 and Phox2b are essential for the respiratory response to CO2.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-mouse-antibody/atoh1/7006166