

For Research Use Only

ATOH1 Polyclonal antibody

Catalog Number: 21215-1-AP

45 Publications



Basic Information

Catalog Number:

21215-1-AP

Concentration:

500 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG15615

GenBank Accession Number:

BC069594

GeneID (NCBI):

474

UNIPROT ID:

Q92858

Full Name:

atonal homolog 1 (Drosophila)

Calculated MW:

354 aa, 38 kDa

Observed MW:

38-40 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:1000-1:4000

IF/ICC 1:400-1:1600

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF, ChIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, monkey

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : Neuro-2a cells, HepG2 cells, mouse small intestine tissue, mouse brain tissue, rat brain tissue

IHC : human colon cancer tissue,

IF/ICC : HepG2 cells,

Background Information

ATOH1, also named as Protein atonal homolog 1 or BHLHA14, is a 364 amino acid protein, which contains 1 bHLH (basic helix-loop-helix) domain. ATOH1, as a transcriptional regulator in the nucleus activates E box-dependent transcription in collaboration with TCF3/E47, but the activity is completely antagonized by the negative regulator of neurogenesis HES1. ATOH1 plays a role in the differentiation of subsets of neural cells by activating E box-dependent transcription.

Notable Publications

Author	Pubmed ID	Journal	Application
Haoran Zhang	36147660	Comput Struct Biotechnol J	WB
Tianli Qin	36252002	Proc Natl Acad Sci U S A	IF
Levi Todd	34686336	Cell Rep	IF

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

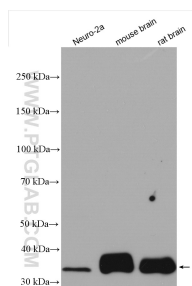
T: 4006900926

E: Proteintech-CN@ptglab.com

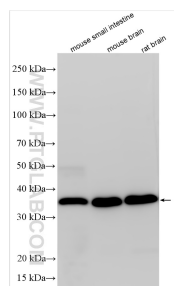
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

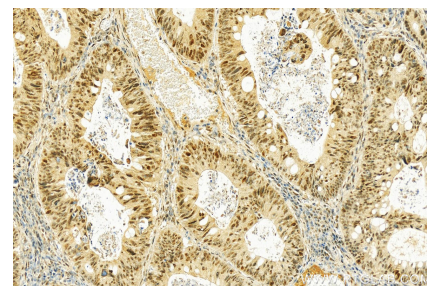
Selected Validation Data



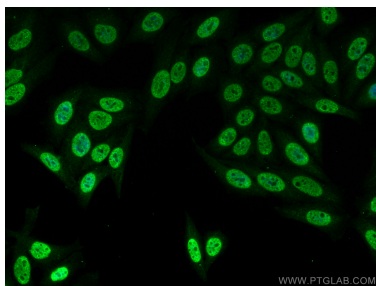
Various lysates were subjected to SDS PAGE followed by western blot with 21215-1-AP (ATOH1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



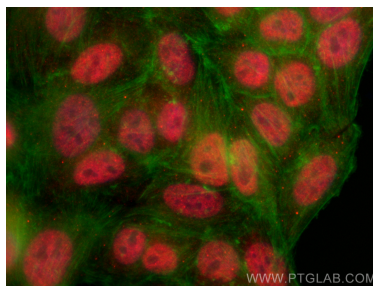
Various lysates were subjected to SDS PAGE followed by western blot with 21215-1-AP (ATOH1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded Colorectal cancer slide using 21215-1-AP (ATOH1 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using ATOH1 antibody (21215-1-AP) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using ATOH1 antibody (21215-1-AP) at dilution of 1:200 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4), CL488-phalloidin (green).