

(Mouse) Ihh Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21224a

Specification

(Mouse) Ihh Antibody (N-term) - Product Information

Application	WB, IHC-P, FC,E
Primary Accession	P97812
Reactivity	Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG

(Mouse) Ihh Antibody (N-term) - Additional Information

Gene ID 16147

Other Names

Indian hedgehog protein, IHH, HHG-2, Indian hedgehog protein N-product, Indian hedgehog protein C-product, Ihh

Target/Specificity

This mouse Ihh antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 57-90 amino acids from the N-terminal region of mouse Ihh.

Dilution

WB~~1:2000

IHC-P~~1:25

FC~~1:25

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

(Mouse) Ihh Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

(Mouse) Ihh Antibody (N-term) - Protein Information

Name Ihh {ECO:0000312|MGI:MGI:96533}

Function [Indian hedgehog protein]: The C-terminal part of the indian hedgehog protein precursor displays an autoproteolysis and a cholesterol transferase activity (By similarity). Both activities

result in the cleavage of the full-length protein into two parts followed by the covalent attachment of a cholesterol moiety to the C- terminal of the newly generated N-product (By similarity). Both activities occur in the reticulum endoplasmic (By similarity). Plays a role in hedgehog paracrine signaling. Associated with the very-low- density lipoprotein (VLDL) particles to function as a circulating morphogen for endothelial cell integrity maintenance (By similarity).

Cellular Location

[Indian hedgehog protein N-product]: Cell membrane {ECO:0000250|UniProtKB:Q14623}; Lipid-anchor {ECO:0000250|UniProtKB:Q62226}. Note=The N-product remains associated with the cell surface. {ECO:0000250|UniProtKB:Q15465}

Tissue Location

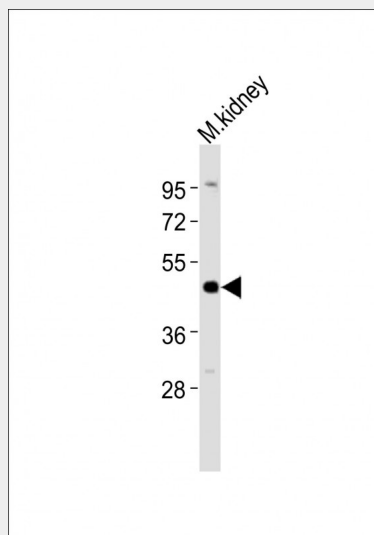
In the adult kidney, found in proximal convoluted and proximal straight tubule.

(Mouse) Ihh Antibody (N-term) - Protocols

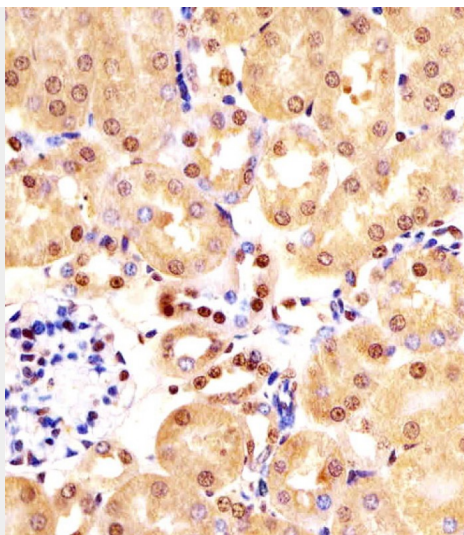
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

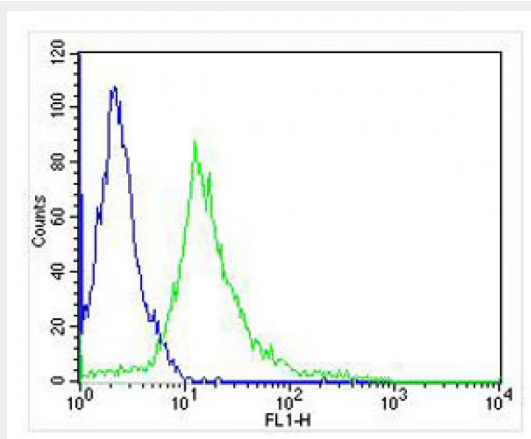
(Mouse) Ihh Antibody (N-term) - Images



Anti-Ihh Antibody (N-term) at 1:2000 dilution + mouse kidney lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 45 kDa Blocking/Dilution buffer: 5% NFDN/TBST.



AP21224a staining (Mouse) Ihh in mouse kidney sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Overlay histogram showing Jurkat cells stained with AP21224a (green line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP12735b, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) (1583138) at 1/400 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.

(Mouse) Ihh Antibody (N-term) - Background

Intercellular signal essential for a variety of patterning events during development. Binds to the patched (PTC) receptor, which functions in association with smoothened (SMO), to activate the transcription of target genes. Implicated in endochondral ossification: may regulate the balance between growth and ossification of the developing bones. Induces the expression of parathyroid hormone-related protein (PTHrP).

(Mouse) Ihh Antibody (N-term) - References

Valentini R.P., et al. *J. Biol. Chem.* 272:8466-8473(1997).

Echelard Y., et al. Cell 75:1417-1430(1993).

St Jacques B., et al. Submitted (APR-1997) to the EMBL/GenBank/DDBJ databases.

Chang D.T., et al. Development 120:3339-3353(1994).