

IHOG Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1410a**Specification**

IHOG Antibody - Product Information

Application	WB
Primary Accession	O9VM64
Reactivity	Drosophila
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	98kDa KDa

Description

The ihog gene (interference hedgehog), identified by RNA interference in Drosophila cultured cells, encodes a type 1 membrane protein shown here to bind and to mediate response to the active Hedgehog (Hh) protein signal. ihog mutations produce defects characteristic of Hh signaling loss in embryos and imaginal discs, and epistasis analysis places ihog action at or upstream of the negatively acting receptor component, Patched (Ptc). The first of two extracellular fibronectin type III (FNIII) domains of the Ihog protein mediates a specific interaction with Hh protein in vitro, but the second FNIII domain is additionally required for in vivo signaling activity and for Ihog-enhanced binding of Hh protein to cells coexpressing Ptc. Other members of the Ihog family, including Drosophila Boi and mammalian CDO and BOC, also interact with Hh ligands via a specific FNIII domain, thus identifying an evolutionarily conserved family of membrane proteins that function in Hh signal response.

Immunogen

Purified recombinant fragment of human IHOG expressed in E. Coli.

Formulation

Ascitic fluid containing 0.03% sodium azide.

IHOG Antibody - Additional Information

Gene ID 33972

Other Names

Interference hedgehog, ihog

Dilution

WB~~1/500 - 1/2000

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

IHOG Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

IHOG Antibody - Protein Information

Name ihog

Function

Mediates response to the active Hedgehog (Hh) protein signal in embryos, functioning upstream or at the level of patched (ptc).

Cellular Location

Membrane; Single-pass type I membrane protein {ECO:0000255, ECO:0000269|PubMed:16630821}

IHOG Antibody - 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](#)

IHOG Antibody - Images

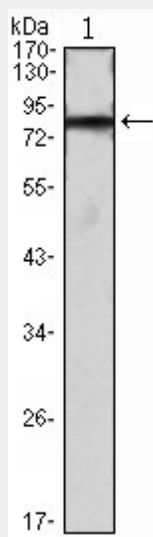


Figure 1: Western blot analysis using IHOG mAb against IHOG-hlgGfC transfected HEK293 cell lysate.

IHOG Antibody - References

1. Cell. 2006 Apr 21;125(2):343-57.
2. Proc Natl Acad Sci U S A. 2006 Nov 14;103(46):17208-13.