10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

IHOG Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1410a

Product Information

Application	WB, E
Primary Accession	Q9VM64
Reactivity	Drosophila
Host	Mouse
Clonality	Monoclonal
Clone Names	3G8
Isotype	IgG1
Calculated MW	97846
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.

Additional Information

Gene ID	33972
Other Names	Interference hedgehog, ihog
Dilution	WB~~1/500 - 1/2000 E~~N/A
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.

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}

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.

Images

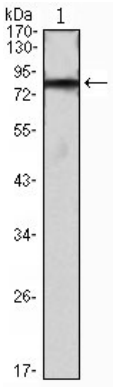

Figure 1: Western blot analysis using IHOG mAb against IHOG-hIgGFc transfected HEK293 cell lysate.