

OriGene Technologies, Inc.

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Product datasheet for CF500041

Sonic Hedgehog (SHH) Mouse Monoclonal Antibody [Clone ID: OTI10H6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI10H6
Applications:	IF, WB
Recommended Dilution:	WB 1:1000~2000, IF 1:100
Reactivity:	Human, Dog, Rat, Monkey, Mouse
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 24-197 of human SHH (NP_000184) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	27.6 kDa
Gene Name:	sonic hedgehog signaling molecule
Database Link:	<u>NP_000184</u> <u>Entrez Gene 20423 MouseEntrez Gene 29499 RatEntrez Gene 608860 DogEntrez Gene 716553</u> <u>MonkeyEntrez Gene 6469 Human</u> <u>Q15465</u>



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GRIGENE Sonic Hedgehog (SHH) Mouse Monoclonal Antibody [Clone ID: OTI10H6] – CF500041

Background: SHH is instrumental in patterning the early embryo. It has been implicated as the key inductive signal in patterning of the ventral neural tube, the anterior-posterior limb axis, and the ventral somites. Of three human proteins showing sequence and functional similarity to the sonic hedgehog protein of Drosophila, this protein is the most similar. The protein is made as a precursor that is autocatalytically cleaved; the N-terminal portion is soluble and contains the signalling activity while the C-terminal portion is involved in precursor processing. More importantly, the C-terminal product covalently attaches a cholesterol moiety to the N-terminal product, restricting the N-terminal product to the cell surface and preventing it from freely diffusing throughout the developing embryo.

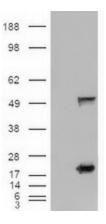
Synonyms:HHG1; HLP3; HPE3; MCOPCB5; SMMCI; TPT; TPTPSProtein Families:Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, TransmembraneProtein Pathways:Basal cell carcinoma, Hedgehog signaling pathway, Pathways in cancer

Product images:

158-106-79-

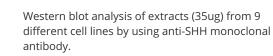
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HepG2 HeLa HT29 A549 COS7 Jurkat MDCK PC12 MCF7

HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SHH (Cat# [RC222175], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SHH(Cat# [TA500041]). Positive lysates [LY424868] (100ug) and [LC424868] (20ug) can be purchased separately from OriGene.



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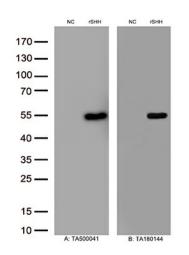
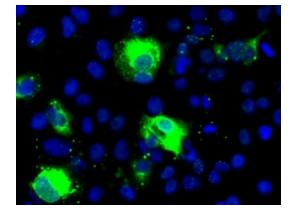


Figure A, Western blot analysis of overexpressed lysates(15ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], NC) , rat SHH plasmid ([RR208777], rSHH) using anti-SHH antibody [TA500041](1:500). Figure B, Western blot analysis of the same samples as figure A with anti-DDK antibody ([TA180144], 1:1000)



Anti-SHH mouse monoclonal antibody ([TA500041]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY SHH ([RC222175]).

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