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## Shh (C9C5) Rabbit mAb



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or Research Use Only. Not for Use in Diagnostic Procedures.						
Applications: WB	Reactivity: H R	Sensitivity: Endogenous	MW (kDa): 19, (45 precursor)	Source/Isotype: Rabbit IgG	UniProt ID: #Q15465	Entrez-Gene lo 6469
Product Usage	Ар	plication			Dilution	
Information	We	estern Blotting		1:1000		
Storage		•	**	.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than not aliquot the antibody.		
Specificity / Sen		Shh (C9C5) Rabbit mAb detects the endogenous levels of total Shh protein. This antibody does not cross-react with transfected IHH and DHH.				
Species predicte react based on 1 sequence homo	L00%	use, Chicken, Xenop	ous, Zebrafish			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu53 of human Shh.				
Background	Abe acti	Hedgehog proteins (Hh) are secreted signaling proteins that play many roles during animal development. Aberrant Hh signaling activity can be associated with numerous birth defects and uncontrolled Hh pathway activation is linked to the development of several types of cancers (1-2). The three identified vertebrate Hh genes are Sonic ( <i>Shh</i> ), Indian ( <i>Ihh</i> ) and Desert ( <i>Dhh</i> ), all of which have distinct as well as overlapping				

doubly modified Hh-N peptide is released from cells and responsible for all known Hedgehog signaling activity (6). 1. Ingham, P.W. and McMahon, A.P. (2001) Genes Dev. 15, 3059-3087. **Background References** 

2. McMahon, A.P. et al. (2003) Curr. Top Dev. Biol. 53, 1-114.

3. Zhang, X.M. et al. (2001) Cell 106, 781-792.

4. Adolphe, C. et al. (2004) Development 131, 5009-5019. 5. Pathi, S. et al. (2001) Mech. Dev. 106, 107-117.

6. Bijlsma, M.F. et al. (2004) Bioessays 26, 387-394.

**Species Reactivity** Species reactivity is determined by testing in at least one approved application (e.g., western blot).

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, **Western Blot Buffer** 

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**WB:** Western Blotting **Applications Key** 

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key** 

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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roles (3-5). Hh proteins are synthesized as 45 kDa precursors that undergo auto-cleavage to generate a 19 kDa amino-terminal peptide (Hh-N) and a carboxy-terminal peptide (Hh-C). The Hh-N becomes covalently attached to a cholesterol molecule at its carboxy terminus and acetylated at its amino terminus. This

information.

1/1/24, 1:02 PM **Limited Uses**  Shh (C9C5) Rabbit mAb (#2207) Datasheet Without Images Cell Signaling Technology Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

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