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anti-Sonic Hedgehog antibody (N-Term)



Images



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Quantity:	100 μL
Target:	Sonic Hedgehog (SHH)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Zebrafish (Danio rerio), Cow, Dog, Horse, Guinea Pig, Goat, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Sonic Hedgehog antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)
Product Details	
Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human SHH
Sequence:	RCLLLVLVSS LLVCSGLACG PGRGFGKRRH PKKLTPLAYK QFIPNVAEKT
Predicted Reactivity:	Cow: 93%, Dog: 100%, Goat: 93%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 100%
Characteristics:	This is a rabbit polyclonal antibody against SHH. It was validated on Western Blot and immunohistochemistry.
Purification:	Affinity Purified
Target Details	
Target:	Sonic Hedgehog (SHH)

Alternative Name:	SHH (SHH Products)	
Background:	SHH is a protein that 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. Defects in this protein or in its signalling pathway are a cause of	
	holoprosencephaly (HPE). It is also thought that mutations in its gene or in its signalling	
	pathway may be responsible for VACTERL syndrome, which is characterized by vertebral	
	defects, anal atresia, tracheoesophageal fistula with esophageal atresia, radial and renal	
	dysplasia, cardiac anomalies, and limb abnormalities. This gene, which is expressed only during	
	embryogenesis, encodes a protein that 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. Defects in	
	this protein or in its signalling pathway are a cause of holoprosencephaly (HPE), a disorder in	
	which the developing forebrain fails to correctly separate into right and left hemispheres. HPE is	
	manifested by facial deformities. In addition, it is thought that mutations in this gene or in its	
	signalling pathway may be responsible for VACTERL syndrome, which is characterized by	
	vertebral defects, anal atresia, tracheoesophageal fistula with esophageal atresia, radial and	
	renal dysplasia, cardiac anomalies, and limb abnormalities.	
	Alias Symbols: HHG1, HLP3, HPE3, SMMCI, TPT, TPTPS, MCOPCB5	
	Protein Interaction Partner: UBC, SEL1L, DERL2, DERL1, SYVN1, HHIP, PTCH2, PTCH1, SHH,	
	ADCYAP1, GAS1,	
	Protein Size: 462	
Molecular Weight:	28 kDa	
Gene ID:	6469	
NCBI Accession:	NM_000193, NP_000184	
UniProt:	Q15465	
Pathways:	Hedgehog Signaling, Dopaminergic Neurogenesis, Regulation of Muscle Cell Differentiation,	
	Tube Formation, Skeletal Muscle Fiber Development	

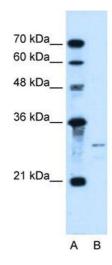
Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 462 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1. WB Suggested Anti-SHH Antibody Titration: 0.2-1 ug/ml Positive Control: HepG2 cell lysate





Dilution: Primary: 1 to 1000 Secondary: 1 to 500 Application Data in Forum



Submitted by:

Tamara Franz-Odendaal Mount Saint Vincent University

Immunohistochemistry

Image 2. Sample Type: Chicken EmbryosDilution: 1:1000







Immunohistochemistry

Image 3. Chicken embryos Primary antibody: 1:1000 (ARP44235_p050) anti -shh Secondary Antibody: 1:500 (ASP00001) goat anti-rabbit HRP conjugated

Please check the product details page for more images. Overall 7 images are available for ABIN2781775.