

CAB7726

Product Information

Product SKU:	CAB7726	Gene ID:	6469		Size:	20uL, 100uL	
Clone No:	-	Host Species:	Rabbit		Reactivity :	Human, Mouse, Rat	
Additional Information							
Observed MW:	19kDa		Conjugate:	Unconjugate	d		
Calculated MW	: 50kDa		lsotype:	lgG			

Immunogen Information

Background:	This gene 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. It is also 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. Additionally, mutations in a long range enhancer located approximately 1 megabase
	upstream of this gene disrupt limb patterning and can result in preaxial polydactyly.
Recommended Dilution:	WB,1:500 - 1:1000 IHC-P,1:50 - 1:100 IF/ICC,1:50 - 1:200
Synonyms:	TPT; HHG1; HLP3; HPE3; SMMCI; ShhNC; TPTPS; MCOPCB5; Sonic Hedgehog (Shh)
Purifcation Method:	Affinity purification
Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 200-300 of human Sonic Hedgehog
	(Shh) (NP_000184.1).
Storage:	Store at -20°C. Avoid freeze / thaw cycles.Buffer: PBS with 0.05% proclin300,50% glycerol,pH7.3.