Mouse SHH Antibody Pair Set

Catalog No. E-KAB-0332 **Applications** ELISA
Synonyms HHG1, HLP3, HPE3, MCOPCB5, SMMCI, TPT, TPTPS, Sonic hedgehog

Kit components & Storage

Title	Specifications	Storage
Mouse SHH Capture Antibody	1 vial, 100 μg	Store at -20℃ for one year. Avoid freeze / thaw cycles.
Mouse SHH Detection Antibody (Biotin)	1 vial, 50 μL	Store at -20℃ for one year. Avoid freeze / thaw cycles.

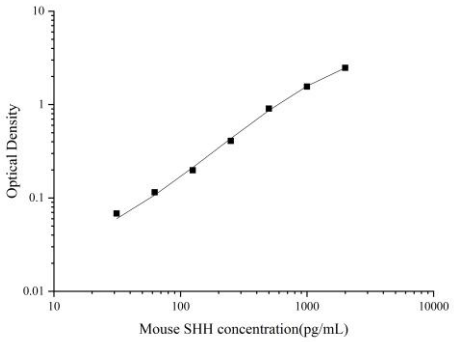
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0332)	
		Mouse SHH Capture Antibody	Mouse SHH Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Mouse SHH protein	Recombinant Mouse SHH protein
	Swissprot	Q62226	
Product details	Reactivity	Mouse	Mouse
	Host	Rat	Rat
	Conjugation	Unconjugated	Biotin
	Concentration	0.5mg/mL	/
	Buffer	PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4	PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4
	Purify	Protein A or G	Protein A or G
	Specificity	Detects Mouse SHH in ELISAs.	

Applications

Mouse SHH Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images
ELISA Capture	0.5-4μg/mL	Mouse SHH Capture Antibody	
ELISA Detection	1:1000-1:10000	Mouse SHH Detection Antibody (Biotin)	

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

Background

Mouse Sonic Hedgehog Homolog (SHH) belongs to a three-protein family called Hedgehog. The other twofamily members are Indian Hedgehog (IHH) and Desert Hedgehog (DHH). Hedgehog proteins are key signalingmolecules in embryonic development. SHH is expressed in various embryonic tissues and plays critical roles inregulating the patterning of many systems, such as limbs and brain. SHH also plays an important role in adult,including the division of adult stem cells and the development of certain cancers and other diseases.Mouse Shhis synthesized as a 437 aa precursor that contains a 24 aa signal sequence and a 413 aa mature region. Themature region is autocatalytically processed into a nonglycosylated, 20 kDa, 174 aa N-terminal fragment (Shh-N), and a catalytic-processing,glycosylated, 34 kDa, 239 aa C-terminal fragment. The 20 kDa Shh-N fragment isthe core of the active hedgehog molecule. Mouse Shh-N is 99%, 98%, and 100% aa identical to human, rat andgerbil Shh-N, respectively.