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Mouse Noggin(NOG) ELISA kit

Product Code	CSB-EL015917MO
Abbreviation	NOG
Protein Biological Process 1	Developmental Protein
Target Name	noggin
Uniprot No.	P97466
Alias	SYM1, SYNS1, symphalangism 1 (proximal)
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Protein Biological Process 3	Chondrogenesis
Sample Types	serum, plasma, tissue homogenates, cell culture supernates
Detection Range	31.25 pg/mL-2000 pg/mL
Sensitivity	7.81 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Developmental Biology
Gene Names	Nog
Tag Info	quantitative
Protein Description	Sandwich
Description	This Mouse NOG ELISA Kit was designed for the quantitative measurement of Mouse NOG protein in serum, plasma, tissue homogenates, cell culture supernates. It is a Sandwich ELISA kit, its detection range is 31.25 pg/mL-2000 pg/mL and the sensitivity is 7.81 pg/mL.
Target Details	The secreted polypeptide, encoded by this gene, binds and inactivates members of the transforming growth factor-beta (TGF-beta) superfamily signaling proteins, such as bone morphogenetic protein-4 (BMP4). By diffusing through extracellular matrices more efficiently than members of the TGF-beta superfamily, this protein may have a principal role in creating morphogenic gradients. The protein appears to have pleiotropic effect, both early in development as well as in later stages. It was originally isolated from Xenopus

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	based on it had been a knockout o processes, dominant h symphalan identified; h feature, an mutations a sequence o mouse.	based on its ability to restore normal dorsal-ventral body axis in embryos that had been artificially ventralized by UV treatment. The results of the mouse knockout of the ortholog suggest that it is involved in numerous developmental processes, such as neural tube fusion and joint formation. Recently, several dominant human NOG mutations in unrelated families with proximal symphalangism (SYM1) and multiple synostoses syndrome (SYNS1) were identified; both SYM1 and SYNS1 have multiple joint fusion as their principal feature, and map to the same region (17q22) as this gene. All of these mutations altered evolutionarily conserved amino acid residues. The amino acid sequence of this human gene is highly homologous to that of Xenopus, rat and mouse.					
Product Precision	Intra-assa Three sam to assess. Inter-assa Three sam assess.	 Intra-assay Precision (Precision within an assay): CV%<8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV%<10% Three samples of known concentration were tested in twenty assays to assess. 					
Linearity	To assess concentrat Diluent to p ? 1:5 1:10 1:20 1:40	the linearity of ions of mouse produce sampl Sample Average % Range % Average % Range % Average % Average % Range %	the assay, samples v NOG in various matri es with values within f Serum(n 95 90-97 89 81-99 95 87-100 93 85-104	vere spiked with high ces and diluted with the S the dynamic range of the =4)	Sample assay.		
Recovery	The recover in various directed in Sample Ty Serum (n= EDTA plas	ery of mouse N matrices was e the Sample Pr pe 5) sma (n=4)	OG spiked to levels to evaluated. Samples we reparation section. Average % Recover 95 97	hroughout the range of th ere diluted prior to assay ry Range 88-99 83-105	ie assay as		
Typical	These star	ndard curves a	re provided for demor	nstration only. A standard	curve		

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