



Mouse Protein Wnt-5a(WNT5A) ELISA kit

Product Code	CSB-EL026138MO
Abbreviation	WNT5A
Protein Biological Process 1	Developmental Protein
Target Name	wingless-type MMTV integration site family, member 5A
Uniprot No.	P22725
Alias	hWNT5A, WNT-5A protein
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Protein Biological Process 3	Chondrogenesis
Sample Types	serum, plasma, cell culture supernates, tissue homogenates
Detection Range	3.12 pg/mL-200 pg/mL
Sensitivity	0.78 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	Stem Cells
Gene Names	Wnt5a
Tag Info	quantitative
Protein Description	Sandwich

Description

This Mouse WNT5A ELISA Kit was designed for the quantitative measurement of Mouse WNT5A protein in serum, plasma, cell culture supernates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 3.12 pg/mL-200 pg/mL and the sensitivity is 0.78 pg/mL .

Target Details

The WNT gene family consists of structurally related genes which encode secreted signaling proteins. These proteins have been implicated in oncogenesis and in several developmental processes, including regulation of cell fate and patterning during embryogenesis. This gene is a member of the WNT gene family. It encodes a protein which shows 98%, 98% and 87% amino acid identity to the mouse, rat and the xenopus Wnt5A protein, respectively. The experiments performed in Xenopus laevis embryos identified that human



frizzled-5 (hFz5) is the receptor for the Wnt5A ligand and the Wnt5A/hFz5 signaling mediates axis induction.

Product Precision

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 the linearity of the assay, samples were spiked with high concentrations of mouse WNT5A in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
	Average %	92
1:1	Range %	86-98
	Average %	98
1:2	Range %	92-106
	Average %	94
1:4	Range %	88-98
	Average %	88
1:8	Range %	83-94

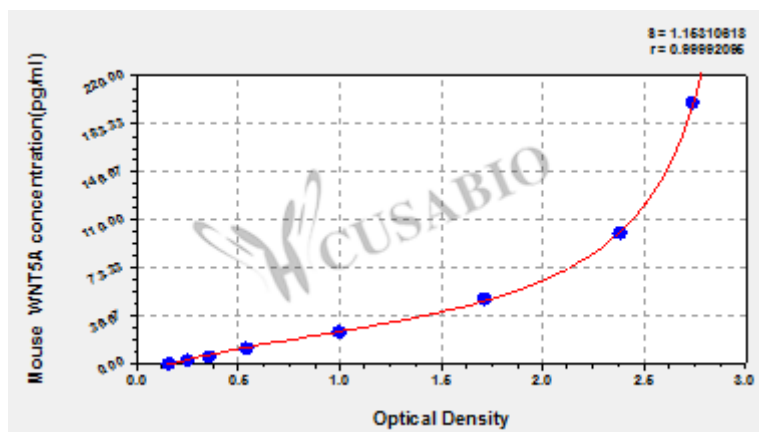
Recovery

The recovery of mouse WNT5A spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	95	87-98
EDTA plasma (n=4)	98	95-101

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
200	2.755	2.652	2.704	2.536
100	2.324	2.376	2.350	2.182
50	1.639	1.752	1.696	1.528
25	0.954	1.035	0.995	0.827
12.5	0.565	0.524	0.545	0.377
6.25	0.372	0.359	0.366	0.198
3.12	0.257	0.259	0.258	0.090
0	0.171	0.165	0.168	?

Msds

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