



Mouse Proto-oncogene Wnt-3(WNT3) ELISA kit

Product Code	CSB-EL026135MO
Abbreviation	WNT3
Protein Biological Process 1	Signaling Pathway
Target Name	wingless-type MMTV integration site family, member 3
Uniprot No.	P17553
Alias	INT4, MGC131950, MGC138321, MGC138323, WNT-3 proto-oncogene protein
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Protein Biological Process 3	Wnt signaling pathway
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	39.07 pg/mL-2500 pg/mL
Sensitivity	9.77 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	Wnt3
Tag Info	quantitative
Protein Description	Sandwich

Description

This Mouse WNT3 ELISA Kit was designed for the quantitative measurement of Mouse WNT3 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 39.07 pg/mL-2500 pg/mL and the sensitivity is 9.77 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% amino acid identity to mouse Wnt3 protein, and 84% to human WNT3A protein, another WNT gene product. The mouse studies show the requirement of Wnt3 in primary axis



formation in the mouse. Studies of the gene expression suggest that this gene may play a key role in some cases of human breast, rectal, lung, and gastric cancer through activation of the WNT-beta-catenin-TCF signaling pathway. This gene is clustered with WNT15, another family member, in the chromosome 17q21 region.

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 WNT3 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)
1:1	Average %	86
	Range %	82-91
1:2	Average %	101
	Range %	98-105
1:4	Average %	87
	Range %	84-91
1:8	Average %	100
	Range %	95-105

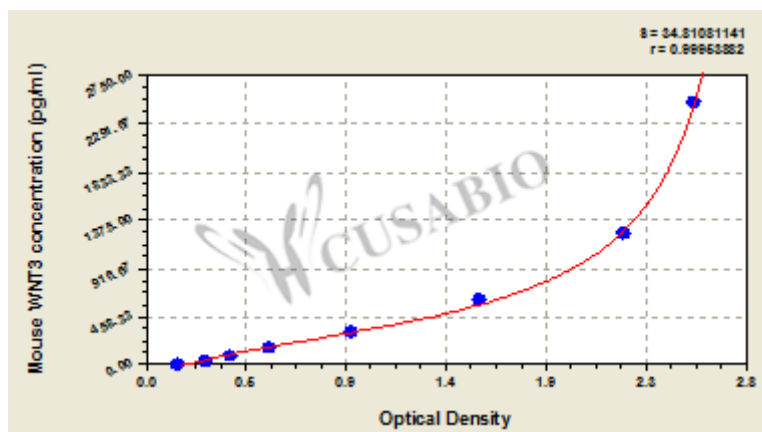
Recovery

The recovery of mouse WNT3 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)	89	85-94
EDTA plasma (n=4)	107	103-110

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
2500	2.547	2.601	2.574	2.411
1250	2.291	2.200	2.246	2.083
625	1.543	1.601	1.572	1.409
312.5	0.971	0.968	0.970	0.807
156.25	0.572	0.601	0.587	0.424
78.13	0.414	0.400	0.407	0.244
39.07	0.295	0.290	0.293	0.130
0	0.161	0.164	0.163	?

Msds

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