Mouse Protein delta homolog 1(DLK1) ELISA kit

Product Code	CSB-EL006945MO
Abbreviation	DLK1
Target Name	delta-like 1 homolog (Drosophila)
Uniprot No.	Q09163
Alias	DLK, FA1, PREF1, Pref-1, ZOG, pG2, delta-like 1 homolog|delta-like homolog|fetal antigen 1|preadipocyte factor 1|secredeltin
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Sample Types	serum, plasma, tissue homogenates
Detection Range	15.6 pg/mL-1000 pg/mL
Sensitivity	3.9 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	Neuroscience
Gene Names	Dlk1
Tag Info	quantitative
Protein Description	Sandwich

Description

The mouse DLK1 ELISA Kit is used to quantitatively measure mouse DLK1 levels in serum, plasma, or tissue homogenates. It performs well in important characteristics, including sensitivity and specificity. This assay is based on the sandwich ELISA mechanism and enzyme-substrate chromogenic reaction. The solution color develops proportionally to the amount of DLK1 in the sample. And the intensity of the color can be measured at 450 nm via a microplate reader.

DLK1, a noncanonical ligand of notch signaling, plays an essential in normal developmental processes, including neuroendocrine differentiation, hepatocyte and biliary epithelial cell differentiation, hematopoiesis, osteogenesis, skeletal muscle differentiation, and chondrogenic differentiation. DLK1 is involved in the regulation of stem cell pools, tissue differentiation during development, cancer differentiation, and cancer stem-like cell (CSCs) maintenance. It has been detected in various carcinomas including neuroendocrine tumors.

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 DLK1 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 %	88
	Range %	84-96
1:2	Average %	95
	Range %	91-99
1:4	Average %	94
	Range %	90-98
1:8	Average %	102
	Range %	92-108

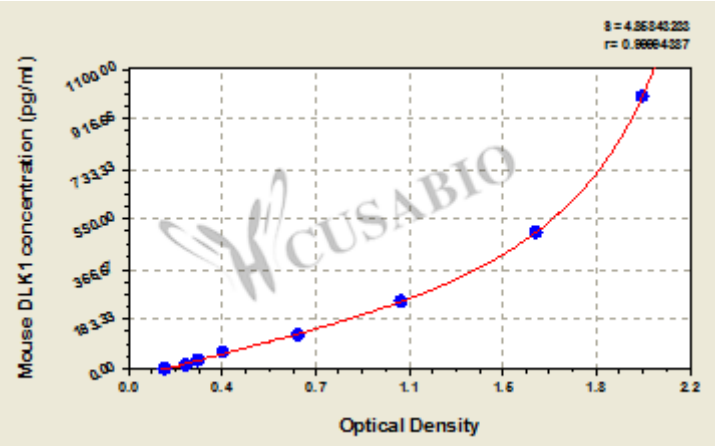
Recovery

The recovery of mouse DLK1 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)	96	92-102
EDTA plasma (n=4)	89	82-98

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
1000	2.045	1.944	1.995	1.844
500	1.644	1.523	1.584	1.433
250	1.073	1.052	1.063	0.912
125	0.673	0.662	0.668	0.517
62.5	0.371	0.382	0.377	0.226
31.2	0.284	0.273	0.279	0.128
15.6	0.235	0.231	0.233	0.082
0	0.148	0.153	0.151	?

Msds	{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-EL006945MO.pdf","filename":"MSDS"}}