Mouse PR domain zinc finger protein 16(PRDM16) ELISA kit

Product Code	CSB-EL018645MO
Abbreviation	PRDM16
Protein Biological Process 1	Developmental Protein
Target Name	PR domain containing 16
Uniprot No.	A2A935
Alias	KIAA1675, MEL1, MGC166915, PFM13, MDS1/EVI1-like|PR-domain zinc finger protein 16|transcription factor MEL1
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Protein Biological Process 3	Differentiation
Sample Types	serum, plasma, tissue homogenates, cell lysates
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	Epigenetics and Nuclear Signaling
Gene Names	Prdm16
Tag Info	quantitative
Protein Description	Sandwich
Description	This Mouse PRDM16 ELISA Kit was designed for the quantitative measurement of Mouse PRDM16 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 15.6 pg/mL-1000 pg/mL and the sensitivity is 3.9 pg/mL.
Target Details	The reciprocal translocation t(1;3)(p36;q21) occurs in a subset of myelodysplastic syndrome (MDS) and acute myeloid leukemia (AML). This gene is located near the 1p36.3 breakpoint and has been shown to be specifically expressed in the t(1:3)(p36,q21)-positive MDS/AML. This protein is a zinc finger

transcription factor and contains an N-terminal PR domain. The translocation results in the overexpression of a truncated version of this protein that lacks the PR domain, which may play an important role in the pathogenesis of MDS and AML. Alternatively spliced transcript variants encoding distinct isoforms have been reported.

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 PRDM16 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 %	93
	Range %	89-99
1:2	Average %	96
	Range %	91-106
1:4	Average %	93
	Range %	89-102
1:8	Average %	95
	Range %	84-98

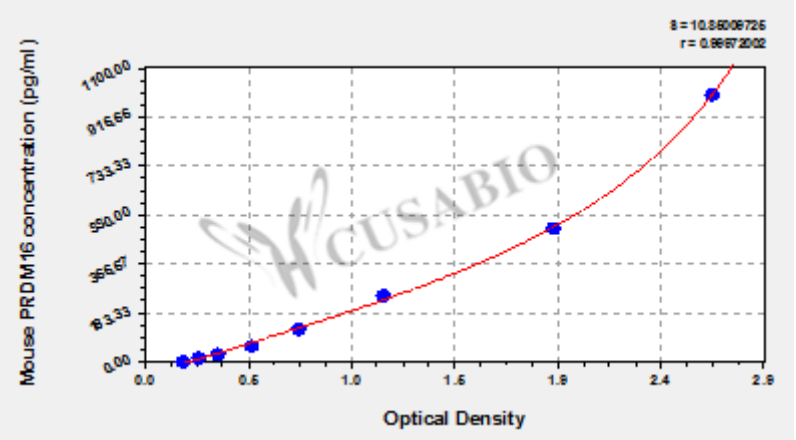
Recovery

The recovery of mouse PRDM16 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	86-98
EDTA plasma (n=4)	97	90-103

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	2.651	2.683	2.667	2.469
500	1.944	1.907	1.926	1.728
250	1.093	1.181	1.137	0.939
125	0.744	0.732	0.738	0.540
62.5	0.505	0.524	0.515	0.317
31.2	0.358	0.367	0.363	0.165
15.6	0.277	0.268	0.273	0.075
0	0.201	0.195	0.198	

Msds

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-EL018645MO.pdf","filename":"MSDS"}}