



# Human Histone deacetylase 9(HDAC9) ELISA kit

<b>Product Code</b>	CSB-EL010245HU
<b>Abbreviation</b>	HDAC9
<b>Protein Biological Process 1</b>	Transcription/Transcription regulation
<b>Target Name</b>	histone deacetylase 9
<b>Uniprot No.</b>	Q9UKV0
<b>Alias</b>	DKFZp779K1053, HD7, HDAC, HDAC7, HDAC7B, HDAC9B, HDAC9FL, HDRP, KIAA0744, MITR, MEF-2 interacting transcription repressor (MITR) protein histone deacetylase 4/5-related protein histone deacetylase 7
<b>Product Type</b>	ELISA Kit
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Protein Biological Process 3</b>	Transcription
<b>Sample Types</b>	serum, plasma, tissue homogenates, cell lysates
<b>Detection Range</b>	0.156 ng/mL-10 ng/mL
<b>Sensitivity</b>	0.039 ng/mL
<b>Assay Time</b>	1-5h
<b>Sample Volume</b>	50-100ul
<b>Detection Wavelength</b>	450 nm
<b>Lead Time</b>	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
<b>Research Area</b>	Epigenetics and Nuclear Signaling
<b>Gene Names</b>	HDAC9
<b>Tag Info</b>	quantitative
<b>Protein Description</b>	Sandwich
<b>Description</b>	This Human HDAC9 ELISA Kit was designed for the quantitative measurement of Human HDAC9 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 0.156 ng/mL-10 ng/mL and the sensitivity is 0.039 ng/mL.
<b>Target Details</b>	Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. This protein has sequence homology to members of the histone deacetylase family. This gene is orthologous to the Xenopus and mouse MITR genes. The MITR protein lacks the histone deacetylase catalytic domain. It represses MEF2



activity through recruitment of multicomponent corepressor complexes that include CtBP and HDACs. This encoded protein may play a role in hematopoiesis. Multiple alternatively spliced transcripts have been described for this gene but the full-length nature of some of them has not been determined.

#### 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 human HDAC9 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 %	91
	Range %	85-94
1:2	Average %	96
	Range %	92-105
1:4	Average %	102
	Range %	95-109
1:8	Average %	88
	Range %	86-92

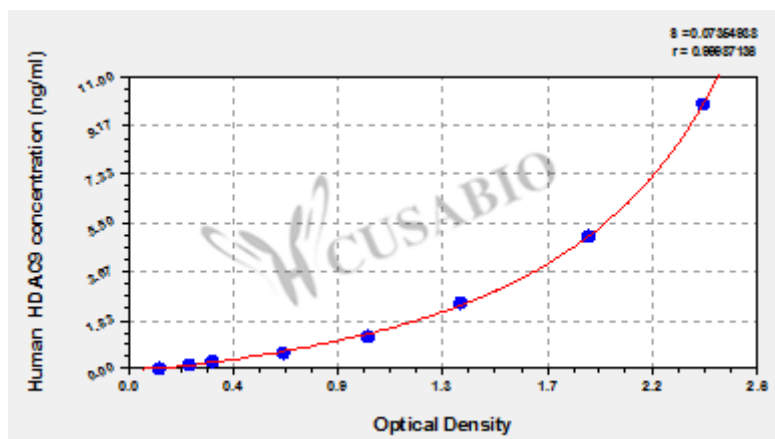
#### Recovery

The recovery of human HDAC9 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)	91	86-94
EDTA plasma (n=4)	99	95-102

#### Typical

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



ng/ml	OD1	OD2	Average	Corrected
10	2.311	2.422	2.367	2.226
5	1.902	1.899	1.901	1.760
2.5	1.323	1.425	1.374	1.233
1.25	0.965	1.024	0.995	0.854
0.625	0.658	0.633	0.646	0.505
0.312	0.344	0.372	0.358	0.217
0.156	0.257	0.266	0.262	0.121
0	0.135	0.146	0.141	

## Msds

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