Horse hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor) (HIF1A) ELISA kit

Product Code	CSB-EL010351HO
Abbreviation	HIF1A
Target Name	hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor) (HIF1A)
Uniprot No.	F6VG41
Product Type	ELISA Kit
Immunogen Species	Equus caballus (Horse)
Sample Types	serum, plasma, tissue homogenates
Detection Range	31.25 pg/mL-2000 pg/mL
Sensitivity	7.81 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
Tag Info	quantitative
Protein Description	Sandwich
Description	This Horse HIF1A ELISA Kit was designed for the quantitative measurement of Horse HIF1A protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 31.25 pg/mL-2000 pg/mL and the sensitivity is 7.81 pg/mL.
Target Details	Hypoxia-inducible factor-1 (HIF1) is a transcription factor found in mammalian cells cultured under reduced oxygen tension that plays an essential role in cellular and systemic homeostatic responses to hypoxia. HIF1 is a heterodimer composed of an alpha subunit and a beta subunit. The beta subunit has been identified as the aryl hydrocarbon receptor nuclear translocator (ARNT). This gene encodes the alpha subunit of HIF-1. Overexpression of a natural antisense transcript (aHIF) of this gene has been shown to be associated with nonpapillary renal carcinomas. Two alternative transcripts encoding different isoforms have been identified.
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 horse HIF1A in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

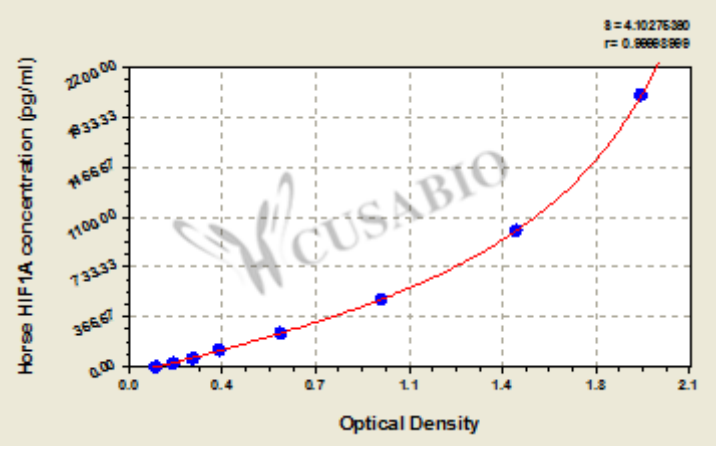
?	Sample	Serum(n=4)
1:1	Average %	89
	Range %	85-94
1:2	Average %	102
	Range %	96-107
1:4	Average %	92
	Range %	87-98
1:8	Average %	94
	Range %	89-98

Recovery

The recovery of horse HIF1A 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)	97	93-102
EDTA plasma (n=4)	103	92-107

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
2000	1.899	1.957	1.928	1.819
1000	1.417	1.496	1.457	1.348
500	0.926	0.978	0.952	0.843
250	0.583	0.572	0.578	0.469
125	0.345	0.353	0.349	0.240
62.5	0.246	0.252	0.249	0.140
31.25	0.171	0.178	0.175	0.066
0	0.108	0.109	0.109	?

Msds

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