Sheep Vasopressin-neurophysin 2-copeptin(AVP) ELISA kit

Product Code	CSB-EL002466SH
Abbreviation	AVP
Target Name	arginine vasopressin
Alias	ADH, ARVP, AVP-NPII, AVRP, VP, antidiuretic hormone|arginine vasopressin-neurophysin II|neurohypophyseal|vasopressin-neurophysin II-copeptin
Product Type	ELISA Kit
Immunogen Species	Ovis aries (Sheep)
Sample Types	serum, plasma, tissue homogenates
Detection Range	1.56 pg/mL-100 pg/mL
Sensitivity	0.39 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	AVP
Tag Info	quantitative
Protein Description	Sandwich
Description	This Sheep AVP ELISA Kit was designed for the quantitative measurement of Sheep AVP protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 1.56 pg/mL-100 pg/mL and the sensitivity is 0.39 pg/mL.
Target Details	This gene encodes a precursor protein consisting of arginine vasopressin and two associated proteins, neurophysin II and a glycopeptide, copeptin. Arginine vasopressin is a posterior pituitary hormone which is synthesized in the supraoptic nucleus and paraventricular nucleus of the hypothalamus. Along with its carrier protein, neurophysin II, it is packaged into neurosecretory vesicles and transported axonally to the nerve endings in the neurohypophysis where it is either stored or secreted into the bloodstream. The precursor is thought to be activated while it is being transported along the axon to the posterior pituitary. Arginine vasopressin acts as a growth factor by enhancing pH regulation through acid-base transport systems. It has a direct antidiuretic action on the kidney, and also causes vasoconstriction of the peripheral vessels. This

hormone can contract smooth muscle during parturition and lactation. It is also involved in cognition, tolerance, adaptation and complex sexual and maternal behaviour, as well as in the regulation of water excretion and cardiovascular functions. Mutations in this gene cause autosomal dominant neurohypophyseal diabetes insipidus (ADNDI).

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 sheep AVP 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 %	86-94
1:2	Average %	101
	Range %	95-105
1:4	Average %	92
	Range %	87-95
1:8	Average %	98
	Range %	94-102

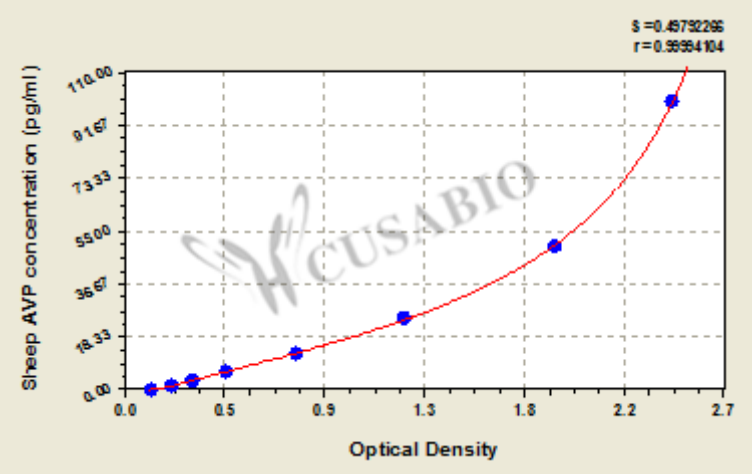
Recovery

The recovery of sheep AVP 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	89-98
EDTA plasma (n=4)	92	86-97

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
100	2.500	2.345	2.423	2.296
50	1.922	1.889	1.906	1.779
25	1.224	1.253	1.239	1.112
12.5	0.755	0.776	0.766	0.639
6.25	0.445	0.464	0.455	0.328
3.12	0.316	0.303	0.310	0.183
1.56	0.216	0.211	0.214	0.087
0	0.128	0.126	0.127	

Msds {"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-EL002466SH.pdf","filename":"MSDS"}}