



Human Annexin ?(ANX-?) ELISA Kit

Product Code	CSB-E12156h
Abbreviation	ANXA2
Target Name	annexin A2
Uniprot No.	P07355
Alias	ANX2, ANX2L4, CAL1H, LIP2, LPC2, LPC2D, P36, PAP-IV, annexin II annexin 2 calpactin I heavy polypeptide chromobindin 8 lipocortin II placental anticoagulant protein IV Annexin ? ANX-?
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, urine, saliva, cell lysates
Detection Range	0.39 ng/mL-25 ng/mL
Sensitivity	0.098 ng/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	Signal Transduction
Gene Names	ANXA2
Tag Info	quantitative
Protein Description	Sandwich

Description

The ELISA Kit is designed to measure human ANXA2 levels in samples, including serum, urine, saliva, or cell lysates. It uses the sandwich enzyme immunoassay technique in combination with the enzyme-substrate chromogenic reaction to quantify the analyte in the sample. The color develops positively to the amount of ANXA2 in samples. The color intensity is measured at 450 nm via a microplate reader.

ANXA2, a calcium-regulated phospholipid-binding protein, is involved in several critical cellular processes, such as cell proliferation, cell adhesion, cell motility, angiogenesis, vesicular transport, exocytosis, and endocytosis. It is abundantly expressed in multiple cancers, including breast cancer, squamous cervical cancer, pancreatic ductal adenocarcinoma (PDA), hepatocellular carcinoma (HCC), and lung cancer. ANXA2 plays a pivotal role in cancer cell proliferation, migration, invasion, metastasis, epithelial-mesenchymal transition (EMT), and treatment resistance. Abnormal expression of ANXA2 can be used as a potential predictive factor, diagnostic biomarker, and therapeutic target in cancer



therapy.

Target Details

This gene encodes a member of the annexin family. Members of this calcium-dependent phospholipid-binding protein family play a role in the regulation of cellular growth and in signal transduction pathways. This protein functions as an autocrine factor which heightens osteoclast formation and bone resorption. This gene has three pseudogenes located on chromosomes 4, 9 and 10, respectively. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene.

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 ANX-? 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 %	90
	Range %	85-94
1:2	Average %	84
	Range %	80-88
1:4	Average %	97
	Range %	92-101
1:8	Average %	103
	Range %	96-110

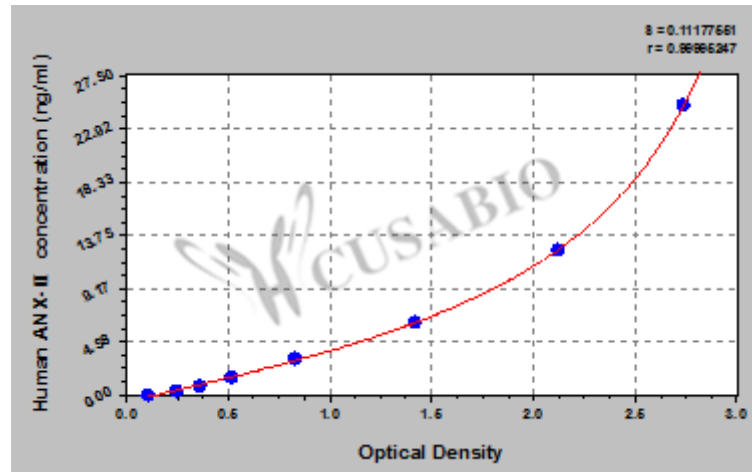
Recovery

The recovery of human ANX-? 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	90-99

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
25	2.748	2.812	2.780	2.659
12.5	2.131	2.176	2.154	2.033
6.25	1.491	1.404	1.448	1.327
3.12	0.866	0.839	0.853	0.732
1.56	0.546	0.524	0.535	0.414
0.78	0.363	0.391	0.377	0.256
0.39	0.254	0.269	0.262	0.141
0	0.125	0.117	0.121	

Msds

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