Human Annexin ?,ANX-? ELISA Kit

Product Code	CSB-E04882h
Abbreviation	ANXA5
Protein Biological Process 1	Blood Coagulation
Target Name	annexin A5
Uniprot No.	P08758
Alias	ANX5, ENX2, PP4, anchorin CII|annexin 5|endonexin II|lipocortin V|placental anticoagulant protein I| annexin ?|ANX-?
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Blood coagulation
Sample Types	serum, plasma, cell culture supernates, cell lysates
Detection Range	0.312 ng/mL-20ng/mL
Sensitivity	0.078 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	Cardiovascular
Gene Names	ANXA5
Tag Info	quantitative
Protein Description	Sandwich

Description

The ELISA Kit is designed to measure human ANXA5 levels in samples, including serum, plasma, cell culture supernates, 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 ANXA5 in samples. The color intensity is measured at 450 nm via a microplate reader.

ANXA5 is known to possess anti-inflammatory and anti-apoptotic properties. It also has a role in cytotoxicity. Due to its preferential phosphatidylserine (PS) binding property, ANXA5 has been used as a marker for the detection of apoptosis-undergoing cells. It regulates cell proliferation, signal transduction, and coagulation. In addition, it has been shown that the binding of ANXA5 to

PS^+ apoptotic cells can regulate the PS-mediated immunosuppressive clearance, thus enhancing the immunogenicity of apoptotic cells, including irradiated, apoptotic-tumor cells. Also, overexpression of ANXA5 has been detected in many cancers, including renal cell cancer, hepatocellular carcinoma, colorectal cancer, and breast cancer.

Target Details

This protein belongs to the annexin family of calcium-dependent phospholipid binding proteins some of which have been implicated in membrane-related events along exocytotic and endocytotic pathways. Annexin 5 is a phospholipase A2 and protein kinase C inhibitory protein with calcium channel activity and a potential role in cellular signal transduction, inflammation, growth and differentiation. Annexin 5 has also been described as placental anticoagulant protein I, vascular anticoagulant-alpha, endonexin II, lipocortin V, placental protein 4 and anchorin CII. The gene spans 29 kb containing 13 exons, and encodes a single transcript of approximately 1.6 kb and a protein product with a molecular weight of about 35 kDa.

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-V 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 %	107
	Range %	96-112
1:2	Average %	101
	Range %	91-107
1:4	Average %	97
	Range %	86-103
1:8	Average %	103
	Range %	95-107

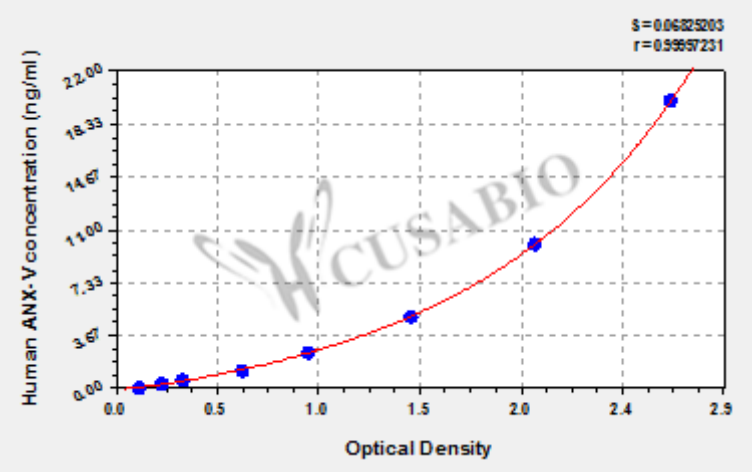
Recovery

The recovery of human ANX-V 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)	100	90-106
EDTA plasma (n=4)	102	95-107

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
20	2.722	2.635	2.679	2.556
10	2.081	1.963	2.022	1.899
5	1.455	1.401	1.428	1.305
2.5	0.948	0.917	0.933	0.810
1.25	0.623	0.608	0.616	0.493
0.625	0.339	0.326	0.333	0.210
0.312	0.231	0.229	0.230	0.107
0	0.125	0.121	0.123	?

Msds

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