Human TNF α converting enzyme,TACE ELISA Kit

Product Code	CSB-E09315h
Abbreviation	ADAM17
Protein Biological Process 1	Signaling Pathway
Target Name	ADAM metallopeptidase domain 17
Uniprot No.	P78536
Alias	ADAM18, CD156B, CSVP, MGC71942, TACE, ADAM metallopeptidase domain 18|TNF-alpha converting enzyme|a disintegrin and metalloprotease domain 17|snake venom-like protease|tumor necrosis factor, alpha|TNF α converting enzyme,TACE
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Notch signaling pathway
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	62.5 pg/mL-4000 pg/mL
Sensitivity	15.6 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	Signal Transduction
Gene Names	ADAM17
Tag Info	quantitative
Protein Description	Sandwich
Description	Based on the Sandwich-ELISA principle and enzyme-substrate chromogenic reaction property, the users can measure the content of mouse ADAM17 in serum, plasma, tissue homogenates, and cell culture supernates. This mouse ADAM17 ELISA kit is quality tested with high specificity, excellent sensitivity, the precision of less than 10%, good linearity, and high recovery. ADAM17, also called TACE, is a type I transmembrane metalloproteinase that is involved in the shedding of the extracellular domain of several transmembrane proteins such as cytokines, growth factors, receptors, and adhesion molecules thus regulating these crucial signaling pathways. It participates in various

physiological and pathophysiological processes, including development, regeneration, differentiation, immunity, inflammation, neurodegeneration, fibrosis, and cancer progression. Overexpression of ADAM17 has been linked to invasion and metastasis in a variety of malignancies. Studies have shown that ADAM17 plays a potential role in breast cancer, including cell proliferation, invasion, angiogenesis, apoptosis, and therapy resistance.

Target Details

This gene encodes a member of the ADAM (a disintegrin and metalloprotease domain) family. Members of this family are membrane-anchored proteins structurally related to snake venom disintegrins, and have been implicated in a variety of biologic processes involving cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis. This protein functions as a tumor necrosis factor-alpha converting enzyme; binds mitotic arrest deficient 2 protein; and also plays a prominent role in the activation of the Notch signaling pathway.

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 TACE 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 %	84
	Range %	80-90
1:2	Average %	97
	Range %	92-103
1:4	Average %	92
	Range %	86-99
1:8	Average %	93
	Range %	85-98

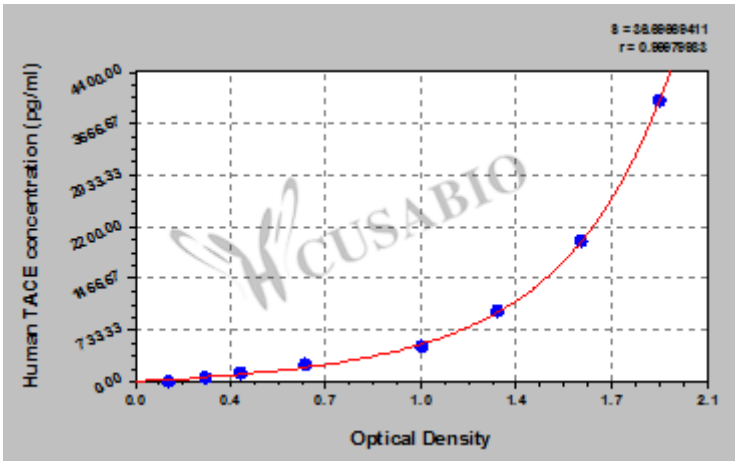
Recovery

The recovery of human TACE 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	89-100
EDTA plasma (n=4)	97	90-103

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
4000	1.931	1.872	1.902	1.770
2000	1.648	1.596	1.622	1.490
1000	1.335	1.304	1.320	1.188
500	1.082	1.012	1.047	0.915
250	0.643	0.609	0.626	0.494
125	0.409	0.379	0.394	0.262
62.5	0.274	0.257	0.266	0.134
0	0.135	0.128	0.132	?

Msds

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