



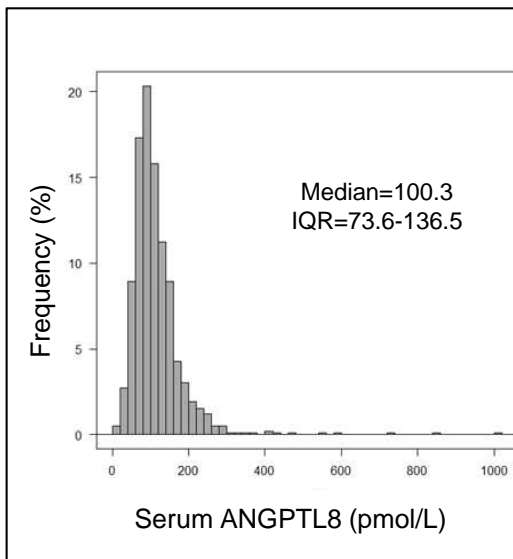
Human ANGPTL8 Assay Kit

A highlighted factor involved with inhibiting of LPL activity

- Research Use Only -

Angiopoietin-like protein 8 (ANGPTL 8) is a protein consists of 198 amino acid that is secreted mainly from liver and fatty tissue. It has been also known as Betatrophin, Lipasin, refeeding induced fat and liver (RIFL) and TD 26. It is classified as an atypical ANGPTL family as ANGPTL8 is high homologous with N-terminal domain of ANGPTL3 and ANGPTL4 although it does not have a C-terminal fibrinogen-like domain which is common to ANGPTL family. It has been observed that triglycerides level become lower in plasma sample of ANGPTL8 deficient mice compare to the level in wild type mice after feeding while it has been reported that triglycerides level in plasma sample is elevated only if ANGPTL8 is overexpressed in presence of ANGPTL3. It has been considered that it becomes a targeted molecule for improving current drug of hyperlipidemia or as a biomarker of metabolic diseases (Reference 1) as ANGPTL8 is a lipoprotein regulatory factor that inhibits LPL activity through activation of ANGPTL3. This ELISA kit can measure full length of ANGPTL8 in human samples.

Product Code	Product Name	Size	Measurement Range	Sample Type	Measuring Samples			
					Serum	EDTA-plasma	Urine	Cell Culture supernatant
27795	Human ANGPTL8 Assay Kit - IBL	96 well	0.61 - 80 pmol/L	Human	○	○	○	○



P value (Log ANGPTL8)	
Age	
>53	0.038
44-53	0.036
Gender	0.027
Smoking	0.306
Drinking	0.076
Obesity	<.001
Impaired glycometabolism	<.001
Hypertension	0.653
Dyslipidemia	<.001
Hyperuricemia	0.09
Hepatic impairment	0.146
CKD	0.343
Anemia	0.85
Cardiac abnormality	0.596
Inflammation	0.512

(Left figure)
Frequency distribution of ANGPTL8 concentration in blood that were collected from 988 subjects at a health examination center of the Japanese Red Cross Kumamoto Hospital.

(Right figure)
Analyzing results for relationship with variable factors in the same study

(Resource and Citation: Refer to the following reference No.1)

Morinaga et al. *PLoS One*. 2018 Mar 14;13(3):e0193731.

【Reference】

1. Morinaga J, Zhao J, Endo M, Kadomatsu T, Miyata K, Sugizaki T, Okadome Y, Tian Z, Horiguchi H, Miyashita K, Maruyama N, Mukoyama M, Oike Y. Association of circulating ANGPTL 3, 4, and 8 levels with medical status in a population undergoing routine medical checkups: A cross-sectional study. *PLoS One*. 2018 Mar 14;13(3):e0193731.

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