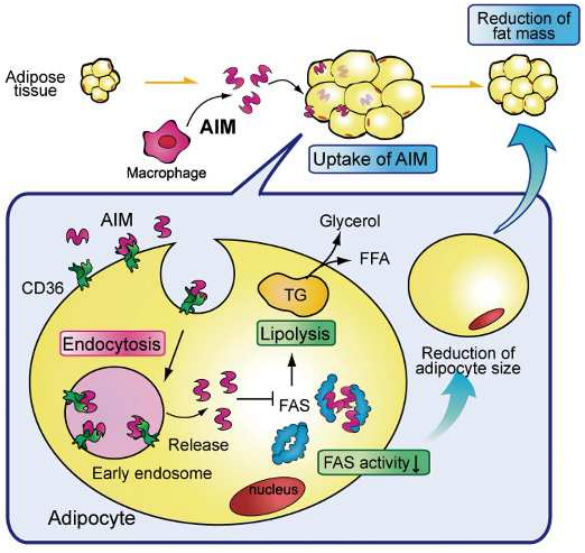
Human AIM/CD5L Assay Kit

Apoptosis Inhibitor of Macrophage
Biomarker for Metabolic Syndrome, Liver and Kidney Disease

- Research Use Only-

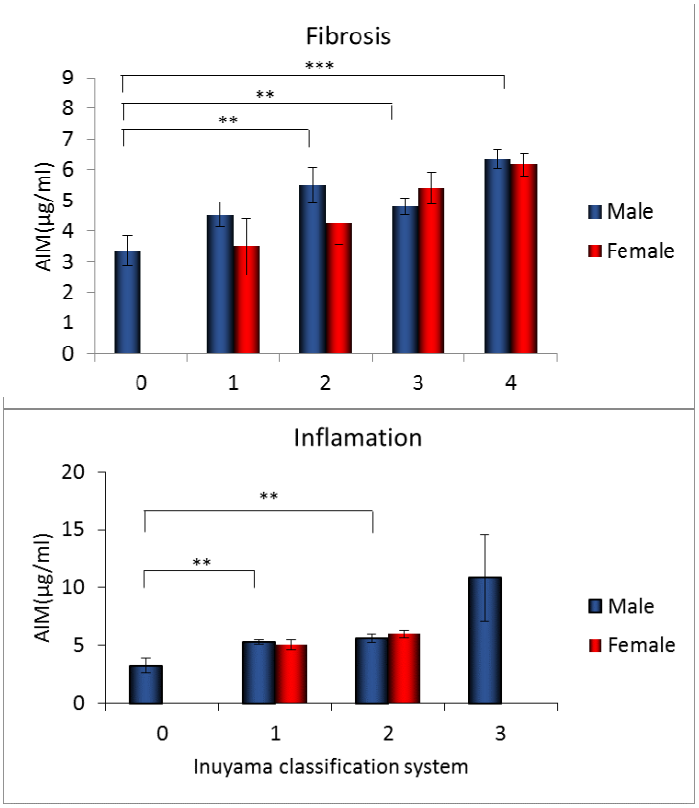
AIM (Apoptosis Inhibitor of Macrophage) is produced by macrophages that are one of the type of immune cell, and it is a secreted form of protein that is secreted into blood. It was named as “AIM” because of the function that suppresses apoptosis by acting on macrophage.[1] AIM level in serum increases along with obesity and it is taken up by adipose cell. AIM decomposes triglyceride by suppression of Fatty Acid Synthase (FAS).[2] This is because it is suggested that AIM associates with various diseases such metabolic syndrome that is originated lifestyle diseases (arteriosclerosis and diabetes) and fatty liver.[3] [4] In recent studies, it has been reported and suggested that it can be a therapeutic target for acute kidney injuries and liver cancer.[5] [6] AIM binds to pentamer IgM in blood, but as the antibody used in this kit can detect IgM binding form, Total AIM can be quantitatively measured by this kit.[7]

Product Code	Sample Type	Product Name	Size	Measurement Range (ng/ml)	Measuring Samples				
					Serum	EDTA-Plasma	Urine	Tissue Extract	Super-natant
27265	Human	Human AIM/CD5L Assay Kit – IBL	96 well	0.78 ～ 50	○	○			



Provided by Dr. Miyazaki of The University of Tokyo

【References】
[1] Miyazaki, Toru, et al. Journal of Experimental Medicine 189.2 (1999): 413-422.
[2] Kurokawa, Jun, et al. Cell metabolism 11.6 (2010): 479-492.
[3] Arai, Satoko, et al. Cell metabolism1.3 (2005): 201-213.
[4] Arai, Satoko, and Toru Miyazaki. Seminars in immunopathology. Vol. 36. No. 1. Springer Berlin Heidelberg, 2014.
[5] Yamazaki, Tomoko, et al. Plos one9.10 (2014): e109123.
[6] Arai, Satoko, et al. Nature medicine 22.2 (2016): 183-193.
[7] Arai, Satoko, et al. Cell reports 3.4 (2013): 1187-1198.



AIM level in blood is elevated in hepatitis and fibrosis.

Provided by Dr. Miyazaki of The University of Tokyo [5]

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