

References

#27745 Human ANGPTL2 Assay Kit - IBL



No.	Field	Keywords	Published	Title
1	Heart disease	Cardiac dysfunction	2017	Circulating ANGPTL2 Levels Increase in Humans and Mice Exhibiting Cardiac Dysfunction. Tian Z et al. Circ J. 2017 Sep 8. doi: 10.1253/circj.CJ-17-0327.PMID: 28890470
2	Heart disease	Myocardial infarction	2016	Acute effects of statin on reduction of angiotensin-like 2 and glyceraldehyde-derived advanced glycation end-products levels in patients with acute myocardial infarction: a message from SAMIT (Statin for Acute Myocardial Infarction Trial). Shimomura M et
3	Heart disease	Heart failure	2015	Serum Angiotensin-Like Protein 2 Concentrations Are Independently Associated with Heart Failure. Huang CL et al. PLoS One. 2015 Sep 23;10(9):e0138678. PMID: 26397985
4	Heart disease	Review (CAD)	2009	Angiotensin-like proteins--potential therapeutic targets for metabolic syndrome and cardiovascular disease. Oike Y et al. Circ J. 2009 Dec;73(12):2192-7. Epub 2009 Oct 29.PMID: 19875897
5	Obesity	Dietary modification	2019	Dietary modification reduces serum angiotensin-like protein 2 levels and arterial stiffness in overweight and obese men. Park J et al. J Exerc Nutrition Biochem. 2019 Sep 30;23(3):39-44.PMID: 31743976
6	Obesity	Insulin resistance	2018	Enhanced ANGPTL2 expression in adipose tissues and its association with insulin resistance in obese women. Kim J et al. Sci Rep. 2018 Sep 18;8(1):13976.PMID: 30228336
7	Obesity	Lifestyle intervention	2011	Angiotensin-like protein 2 sensitively responds to weight reduction induced by lifestyle intervention on overweight Japanese men. Muramoto A et al. Nutr Diabetes. 2011 Nov 7;1(11):e20.PMID: 23154406
8	Obesity	Insulin resistance	2009	Angiotensin-like protein 2 promotes chronic adipose tissue inflammation and obesity-related systemic insulin resistance. Tabata M et al. Cell Metab. 2009 Sep;10(3):178-88.
9	Cancer	Osteosarcoma metastasis	2020	Tumor secreted ANGPTL2 facilitates recruitment of neutrophils to the lung to promote lung pre-metastatic niche formation and targeting ANGPTL2 signaling affects metastatic disease. Charan M et al. Oncotarget. 2020 Feb 4;11(5):510-522.PMID: 32082485
10	Cancer	Pancreatic cancer	2018	Angiotensin-like Protein 2 is a Useful Biomarker for Pancreatic Cancer that is Associated with Type 2 Diabetes Mellitus and Inflammation. Yoshinaga T et al. J Cancer. 2018 Nov 25;9(24):4736-4741.PMID: 30588259
11	Cancer	Gastric cancer	2015	Angiotensin-like protein 2 is a potential biomarker for gastric cancer. Yoshinaga T et al. Mol Med Rep. 2015 Apr;11(4):2653-8.PMID: 25484242
12	Cancer	Gastric cancer	2015	Serum angiotensin-like protein 2 as a potential biomarker for diagnosis, early recurrence and prognosis in gastric cancer patients. Toiyama Y et al. Carcinogenesis. 2015 Dec;36(12):1474-83.PMID: 26420253
13	Cancer	Esophageal cancer/ Prognosis_Prediction	2015	Angiotensin-Like Protein 2 Acts as a Novel Biomarker for Diagnosis and Prognosis in Patients with Esophageal Cancer. Ide S et al. Ann Surg Oncol. 2015 Jan 7.PMID: 25564164
14	Cancer	Colorectal cancer	2015	Angiotensin-like protein 2 as a potential biomarker for colorectal cancer. Yoshinaga T et al. Mol Clin Oncol. 2015 Sep;3(5):1080-1084.PMID: 26623054
15	Cancer	Colorectal cancer	2015	Serum Angiotensin-like Protein 2 Improves Preoperative Detection of Lymph Node Metastasis in Colorectal Cancer. Toiyama Y et al. Anticancer Res. 2015 May;35(5):2849-56.PMID: 25964566
16	Cancer	Colorectal cancer/ Recurrence	2014	Elevated serum angiotensin-like protein 2 correlates with the metastatic properties of colorectal cancer: a serum biomarker for early diagnosis and recurrence. Toiyama Y et al. Clin Cancer Res. 2014 Dec 1;20(23):6175-86.PMID 25294915
17	Cancer	Colorectal cancer/ Resistant to chemotherapy	2014	Angiotensin-like protein 2 renders colorectal cancer cells resistant to chemotherapy by activating spleen tyrosine kinase-phosphoinositide 3-kinase-dependent anti-apoptotic signaling. Horiguchi H et al. Cancer Sci. 2014 Dec;105(12):1550-9.PMID: 25287946
18	Cancer	Breast cancer	2014	Serum ANGPTL2 levels reflect clinical features of breast cancer patients: implications for the pathogenesis of breast cancer metastasis. Endo M et al. Int J Biol Markers. 2014 Sep 30;29(3):e239-45.PMID: 24585434
19	Epidemiological research	Risk Factor for Cardiovascular Disease	2016	Serum Angiotensin-Like Protein 2 Is a Novel Risk Factor for Cardiovascular Disease in the Community: The Hisayama Study. Hata J et al. Arterioscler Thromb Vasc Biol. 2016 Aug;36(8):1686-91.PMID: 27365403
20	Epidemiological research	Risk of type 2 diabetes	2013	Angiotensin-like protein 2 and risk of type 2 diabetes in a general Japanese population: the Hisayama study. Doi Y et al. Diabetes Care. 2013 Jan;36(1):98-100.PMID: 22966088
21	Epidemiological research	CKD	2013	Angiotensin-like protein 2 is associated with chronic kidney disease in a general Japanese population: the Hisayama Study. Usui T et al. Clinical Trial Circ J. 2013;77(9):2311-7.PMID: 23739531

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22	Atherosclerosis	Carotid IMT (intima-media thickness)	2015	Association of serum angiotensin-like protein 2 with carotid intima-media thickness in subjects with type 2 diabetes. Jung CH et al. Cardiovasc Diabetol. 2015 Apr 15;14:35. PMID: 25889082
23	Atherosclerosis	CAD	2014	"Role of endothelial cell-derived angptl2 in vascular inflammation leading to endothelial dysfunction and atherosclerosis progression. Horio E et al. Arterioscler Thromb Vasc Biol. 2014 Apr;34(4):790-800.PMID: 24526691"
24	Animal test	Interstitial pneumonia	2016	Interstitial pneumonia induced by bleomycin treatment is exacerbated in Angptl2-deficient mice. Motokawa I et al. Am J Physiol Lung Cell Mol Physiol. 2016 Oct 1;311(4):L704-L713.PMID: 27542805
25	Animal test	Heart failure	2016	ANGPTL2 activity in cardiac pathologies accelerates heart failure by perturbing cardiac function and energy metabolism. Tian Z et al. Nat Commun. 2016 Sep 28;7:13016.PMID: 27677409
26	Animal test	Insulin resistance	2015	Angiotensin Like Protein 2 (ANGPTL2) Promotes Adipose Tissue Macrophage and T lymphocyte Accumulation and Leads to Insulin Resistance. Sasaki Y et al. PLoS One. 2015 Jul 1;10(7):e0131176.PMID: 26132105
27	Animal test	Tumor metastasis	2012	Tumor cell-derived angiotensin-like protein ANGPTL2 is a critical driver of metastasis. Endo M et al. Cancer Res. 2012 Apr 1;72(7):1784-94.PMID: 22345152
28	Others	Dermatology (whitening)	2019	UV-B-activated B16 melanoma cells or HaCaT keratinocytes accelerate signaling pathways associated with melanogenesis via ANGPTL 2 induction, an activity antagonized by Chrysanthemum extract. Satou G et al. Exp Dermatol. 2019 Feb;28(2):152-160.PMID: 30554436
29	Others	Dermatomyositis	2012	The role of angiotensin-like protein 2 in pathogenesis of dermatomyositis. Ogata A et al. Biochem Biophys Res Commun. 2012 Feb 17;418(3):494-9.PMID: 22281496
30	Others	Gestational Diabetes	2016	Association between Maternal Serum Concentrations of Angiotensin-like Protein 2 in Early Pregnancy and Subsequent Risk of Gestational Diabetes Mellitus. Zhang Y et al. Chin Med J (Engl). 2016 Oct 5;129(19):2308-12.PMID: 27647189
31	Others	Type 2 diabetes · LAB (Lectin-like oxidized LDL receptor 1 ligand containing apolipoprotein B)	2018	Association between angiotensin-like protein 2 and lectin-like oxidized low-density lipoprotein receptor 1 ligand containing apolipoprotein B in patients with type 2 diabetes. Suzuki T et al. Clinical Trial J Int Med Res. 2018 Oct;46(10):4167-4180.PMID: 30157689
32	Others	Review	2017	High Circulating Levels of ANGPTL2: Beyond a Clinical Marker of Systemic Inflammation. Nathalie Thorin-Trescases et al. Oxid Med Cell Longev. 2017;2017:1096385. PMID: PMC5613648
33	Others	Review (Heart Disease)	2017	A New Causal Player in Accelerating Heart Disease Development in the Aging Oike Y et al. Circ J. 2017 Sep 25;81(10):1379-1385.PMID: 28867689
34	Others	Rheumatoid arthritis (RA)	2010	Synoviocyte-derived angiotensin-like protein 2 contributes to synovial chronic inflammation in rheumatoid arthritis. Okada T et al. m J Pathol. 2010 May;176(5):2309-19.PMID: 20304962
35	Others	Lumbar spinal canal stenosis	2014	Angiotensin-like protein 2 induced by mechanical stress accelerates degeneration and hypertrophy of the ligamentum flavum in lumbar spinal canal stenosis Masuda T et al. PLoS One. 2014 Jan 17;9(1):e85542.PMID: 24465594