

Adipokine ELISA Kits

Product	Prod. No.	96 wells	Twin Plex 2x96 wells	PentaPlex 5x96 wells
Adiponectin (human) ELISA Kit	AG-45A-0001	✓	✓	✓
Adiponectin (human) Competitive ELISA Kit	AG-45A-0002	✓	✓	✓
Adiponectin (mouse) ELISA Kit	AG-45A-0004	✓	✓	✓
Adiponectin (rat) ELISA Kit	AG-45A-0005	✓	✓	✓
Adiponectin (rhesus monkey/macaque) Competitive ELISA Kit	AG-45A-0003	✓		
ANGPTL3 (human) ELISA Kit	AG-45A-0014	✓	✓	✓
ANGPTL3 (mouse/rat) Dual ELISA Kit	AG-45A-0015	✓	✓	✓
ANGPTL6 (human) ELISA Kit	AG-45A-0016	✓	✓	✓
Clusterin (human) Competitive ELISA Kit	AG-45A-0013	✓	✓	✓
● NEW GPX1 (human) ELISA Kit	AG-45A-0037	✓	✓	✓
● NEW GPX1 (human) (IntraCellular) ELISA Kit	AG-45A-0034	✓	✓	
GPX3 (human) ELISA Kit	AG-45A-0020	✓	✓	✓
GPX3 (mouse) ELISA Kit	AG-45A-0021	✓	✓	✓
Nampt [Visfatin/PBEF] (human) ELISA Kit	AG-45A-0006	✓	✓	✓
Nampt [Visfatin/PBEF] (human) (IntraCellular) ELISA Kit	AG-45A-0008	✓	✓	
Nampt [Visfatin/PBEF] (mouse/rat) Dual ELISA Kit	AG-45A-0007	✓	✓	✓
Nampt [Visfatin/PBEF] (mouse/rat) (IntraCellular) Dual ELISA Kit	AG-45A-0009	✓	✓	
Progranulin (human) ELISA Kit	AG-45A-0018	✓	✓	✓
Progranulin (mouse) ELISA Kit	AG-45A-0019	✓	✓	✓
● NEW RBP4 (human) ELISA Kit (Quantitative)	AG-45A-0035	✓	✓	✓
RBP4 (human) Competitive ELISA Kit	AG-45A-0010	✓	✓	✓
RBP4 (mouse/rat) Dual ELISA Kit	AG-45A-0012	✓	✓	✓
Resistin (human) ELISA Kit	AG-45A-0023	✓	✓	✓
Resistin (mouse) ELISA Kit	AG-45A-0024	✓		
Vaspin (human) ELISA Kit	AG-45A-0017	✓	✓	✓
OTHER METABOLISM AND IMMUNOLOGY RELATED ELISA KITS				
ACE2 (human) ELISA Kit	AG-45A-0022	✓	✓	✓
● NEW BAFF, Soluble (human) ELISA Kit (hypersensitive)	AG-45B-0001	✓		
● NEW CTRP5 (human) Competitive ELISA Kit	AG-45A-0031	✓	✓	✓
● NEW DLK1, Soluble (human) ELISA Kit	AG-45A-0032	✓	✓	✓
DLL1 [Delta-like 1], Soluble (human) ELISA Kit	AG-45A-0027	✓	✓	✓
FTO (human) (IntraCellular) ELISA Kit	AG-45A-0025	✓	✓	
● NEW FTO (mouse) (IntraCellular) ELISA Kit	AG-45A-0028	✓	✓	
● NEW IL-33 (human) ELISA Kit	AG-45A-0033	✓	✓	✓
● NEW NQO1 (human) ELISA Kit	AG-45A-0036	✓	✓	✓
● NEW Sirtuin 1 (human) (IntraCellular) ELISA Kit	AG-45A-0029	✓	✓	
● NEW Sirtuin 2 (human) (IntraCellular) ELISA Kit	AG-45A-0030	✓	✓	

Selected Product Specific Literature References

Adiponectin (human) ELISA Kit (AG-45A-0001)

Association between hypoadiponectinemia and cardiovascular risk factors in non-obese healthy adults: J.A. Im, et al.; *Metabolism* **55**, 1546 (2006) ■ Improved insulin sensitivity and adiponectin level after exercise training in obese Korean youth: E.S. Kim, et al.; *Obesity (Silver Spring)* **15**, 3023 (2007) ■ Obesity-related promotion of aberrant crypt foci in DMH-treated obese Zucker rats correlates with dyslipidemia rather than hyperinsulinemia: T.C. Koch, et al.; *Eur. J. Nutr.* **47**, 161 (2008) ■ Fat in liver/muscle correlates more strongly with insulin sensitivity in rats than abdominal fat: S. Lim, et al.; *Obesity (Silver Spring)* **17**, 188 (2009) ■ The Lou/C rat: a model of spontaneous food restriction associated with improved insulin sensitivity and decreased lipid storage in adipose tissue: C. Veyrat-Durebex, et al.; *Am. J. Physiol. Endocrinol. Metab.* **296**, E1120 (2009)

Adiponectin (mouse) ELISA Kit (AG-45A-0004)

Chop-deficient mice showed increased adiposity but no glucose intolerance: Y. Ariyama, et al.; *Obesity (Silver Spring)* **15**, 1647 (2007) ■ Overexpression of human adiponectin in transgenic mice results in suppression of fat accumulation and prevention of premature death by high-calorie diet: S. Otabe, et al.; *Am. J. Physiol. Endocrinol. Metab.* **293**, E210 (2007) ■ Expression of Src homology 2 domain-containing protein tyrosine phosphatase substrate-1 in pancreatic beta-Cells and its role in promotion of insulin secretion and protection against diabetes: M. Kobayashi, et al.; *Endocrinology* **149**, 5662 (2008)

Adiponectin (rat) ELISA Kit (AG-45A-0005)

A new organotypic culture of adipose tissue fragments maintains viable mature adipocytes for a long term, together with development of immature adipocytes and mesenchymal stem cell-like cells: E. Sonoda, et al.; *Endocrinology* **149**, 4794 (2008) ■ The Lou/C rat: a model of spontaneous food restriction associated with improved insulin sensitivity and decreased lipid storage in adipose tissue: C. Veyrat-Durebex, et al.; *Am. J. Physiol. Endocrinol. Metab.* **296**, E1120 (2009)

ANGPTL6 (human) ELISA Kit (AG-45A-0016)

Serum levels of angiopoietin-related growth factor are increased in preeclampsia: H. Stepan, et al.; *Am. J. Hypertens.* **22**, 314 (2009)

Clusterin (human) Competitive ELISA Kit (AG-45A-0013)

Serum levels of angiopoietin-related growth factor are increased in preeclampsia: H. Stepan, et al.; *Am. J. Hypertens.* **22**, 314 (2009) ■ Clusterin in Stool: A New Biomarker for Colon Cancer Screening?: S. Pucci, et al.; *Am. J. Gastroenterol.* **104**, 2807 (2009)

GPX3 (human) ELISA Kit (AG-45A-0020)

Oxidative stress after antenatal betamethasone: Acute downregulation of glutathione peroxidase-3: J. Verhaeghe, et al.; *Early Hum. Dev.* **85**, 767 (2009) ■ Dysregulation of adipose glutathione peroxidase 3 in obesity contributes to local and systemic oxidative stress: Y.S. Lee, et al.; *Mol. Endocrinol.* **22**, 2176 (2008) ■ Oxidant balance markers at birth in relation to glycemic and acid-base parameters: J. Verhaeghe, et al.; *Metabolism*, *Epub ahead of print* (2010)

Nampt [Visfatin/PBEF] (human) ELISA Kit (AG-45A-0006)

Adipokines influencing metabolic and cardiovascular disease are differentially regulated in maintenance hemodialysis: M. Ziegelmeier, et al.; *Metabolism* **57**, 1414 (2008) ■ Ethnic-specific Correlations of Visfatin With Circulating Markers of Endothelial Inflammation and Function: M. Reimann, et al.; *Obesity (Silver Spring)* **17**, 2210 (2009) ■ Visfatin activates eNOS via Akt and MAP kinases and improves endothelial cell function and angiogenesis in vitro and in vivo: translational implications for atherosclerosis: F. Lovren, et al.; *Am. J. Physiol. Endocrinol. Metab.* **296**, E1440 (2009)

Progranulin (human) ELISA Kit (AG-45A-0018)

Low plasma progranulin levels predict progranulin mutations in frontotemporal lobar degeneration: R. Ghidoni, et al.; *Neurology* **71**, 1235 (2008) ■ Plasma progranulin levels predict progranulin mutation status in frontotemporal dementia patients and asymptomatic family members: N. Finch, et al.; *Brain* **132**, 583 (2009) ■ Common variation in the miR-659 binding-site of GRN is a major risk factor for TDP43-positive frontotemporal dementia: R. Rademakers, et al.; *Hum. Mol. Genet.* **17**, 3631 (2008) ■ Serum progranulin concentrations may be associated with macrophage infiltration into omental adipose tissue: B.S. Youn, et al.; *Diabetes* **58**, 627 (2009)

RBP4 (human) Competitive ELISA Kit (AG-45A-0010)

Plasma retinol-binding protein-4 concentrations are elevated in human subjects with impaired glucose tolerance and type 2 diabetes: Y.M. Cho, et al.; *Diabetes Care* **29**, 2457 (2006) ■ Serum levels of adipokine retinol-binding protein-4 in relation to renal function: M. Ziegelmeier, et al.; *Diabetes Care* **30**, 2588 (2007) ■ Identification of serum biomarkers in brain-injured adults: potential for predicting elevated intracranial pressure: G. Hergenroeder, et al.; *J. Neurotrauma* **25**, 79 (2008) ■ Serum adipocyte fatty acid-binding protein levels are associated with nonalcoholic fatty liver disease in type 2 diabetic patients: J.H. Koh, et al.; *Diabetes Care* **32**, 147 (2009) ■ Elevated serum gamma-glutamyltransferase levels are independently associated with insulin resistance in non-diabetic subjects: J.Y. Shin, et al.; *Diabetes Res. Clin. Pract.* **84**, 152 (2009)

RBP4 (mouse/rat) Dual ELISA Kit (AG-45A-0012)

Cyanidin 3-glucoside ameliorates hyperglycemia and insulin sensitivity due to downregulation of retinol binding protein 4 expression in diabetic mice: R. Sasaki, et al.; *Biochem. Pharmacol.* **74**, 1619 (2007) ■ Decreased clearance of serum retinol-binding protein and elevated levels of transthyretin in insulin-resistant ob/ob mice: N. Mody, et al.; *Am. J. Physiol. Endocrinol. Metab.* **294**, E785 (2008) ■ Diabetes of the Liver: The Link Between Nonalcoholic Fatty Liver Disease and HFCs-55: K.S. Collison, et al.; *Obesity (Silver Spring)* **17**, 2003 (2009) ■ Identification and characterization of a non-retinoid ligand for retinol-binding protein 4 which lowers serum retinol-binding protein 4 levels in vivo: A. Motani, et al.; *J. Biol. Chem.* **284**, 7673 (2009)

Resistin (human) ELISA Kit (AG-45A-0023)

Relationship between serum adipocytokine levels and metabolic syndrome in menopausal women: H.T. Park, et al.; *Gynecol. Endocrinol.* **25**, 27 (2009) ■ Alteration of adipokines during peripheral blood stem cell mobilization induced by granulocyte colony-stimulating factor: Y. Tanaka, et al.; *J. Clin. Apher.* **24**, 205 (2009) ■ A 12-week regimen of caloric restriction improves levels of adipokines and pro-inflammatory cytokines in Korean women with BMIs greater than 23 kg/m²: I.S. Lee, et al.; *Inflamm. Res.* **59**, 399 (2010)

Resistin (mouse) ELISA Kit (AG-45A-0024)

Sp1 mediates repression of the resistin gene by PPARgamma agonists in 3T3-L1 adipocytes: S.S. Chung, et al.; *BBRC* **348**, 253 (2006)

Vaspin (human) ELISA Kit (AG-45A-0017)

Serum levels of the adipokine vaspin in relation to metabolic and renal parameters: J. Seeger, et al.; *J. Clin. Endocrinol. Metab.* **93**, 247 (2008) ■ Serum vaspin concentrations in human obesity and type 2 diabetes: B.S. Youn, et al.; *Diabetes* **57**, 372 (2008) ■ Serum vaspin levels in type 2 diabetic women in relation to microvascular complications: N.E. Gulcelik, et al.; *Eur. J. Endocrinol.* **160**, 65 (2009) ■ Vaspin serum concentrations in patients with carotid stenosis: G. Aust, et al.; *Atherosclerosis* **204**, 262 (2009)