

## Datasheet

### Anti-Adiponectin Clone 399R

Product Name	Anti Human Adiponectin 399R
Catalogue Number	399R
Clone, Isotype	399R, IgG1
Format	IgG
Tested Applications	ELISA

#### **Description:**

Adiponectin plays an important role in pathogenesis and amplification of insulin-resistant states in humans, where levels are reduced in patients with type-2 diabetes and obesity. (Hotta K, et al.) Clone 399R is used to detect plasma adiponectin concentrations. Clone 399R is also used in a combination ELISA with clone 32F8, acting as the capture antibody.

#### **Product Details:**

**Form in stock:** IgG, purified – 1.0 mg/mL. Also available as unpurified supernatant.

**Host:** Mouse

**Specificity:** Synthetic peptide corresponding to the tail region of the Adiponectin molecule.

**Fusion partner:** Spleen cells from immunised Balb/c mice were fused with cells of the SP2/0 myeloma cell line.

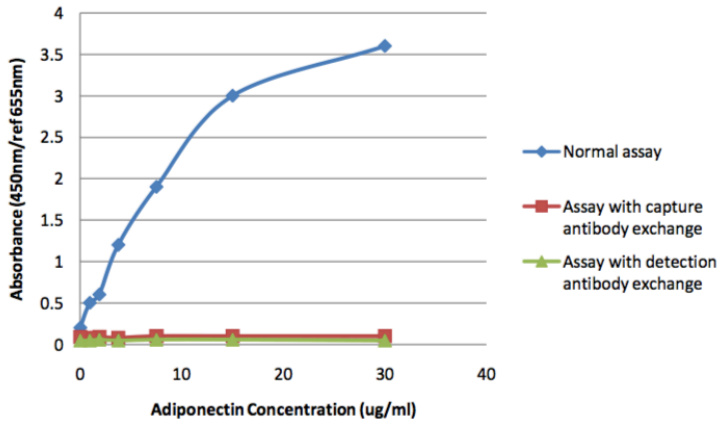
**Storage:** Store at +4°C or -20°C. Avoid repeated freezing and thawing.

**Shelf life:** 18 months from date of dispatch.

**Regulatory/ Restrictions:** For research and commercial purposes.

Applications	Suggested Dilution
ELISA	1:1000 <sup>1</sup>

## Applications:



Assessment of specificity of the ELISA sandwich combination 399R and 32F8 to quantify adiponectin concentration in serum.  
(Hazell, M 2009)

**Dilution used:** 1:1000

## References:

1. Hazell, M.J. (2009) Development and Clinical Applications of Immunoassays for Human Adiponectin. Thesis. *Oxford Brookes University*.
2. Hotta, K., Funahashi, T., Arita, Y., Takahashi, M., Matsuda, M., Okamoto, Y., Iwahashi, H., Kuriyama, H., Ouchi, N., Maeda, K., Nishida, M., Kihara, S., Sakai, N., Nakajima, T., Hasegawa, K., Muraguchi, M., Ohmoto, Y., Nakamura, T., Yamashita, S., Hanafusa, T., Matsuzawa, Y. (2000) Plasma Concentrations of a Novel, Adipose-Specific Protein, Adiponectin, in Type 2 Diabetic Patients. *Arteriosclerosis, Thrombosis, and Vascular Biology. American Heart Association, Inc.*
3. Miller, N.E., Michel, C.C., Nanjee, M.N., Olszewski, W.L., Miller, I.P., Hazell, M., Olivecrona, G., Sutton, P., Humphreys, S.M., Frayn, K.N. (2011) Secretion of adipokines by human adipose tissue in vivo: partitioning between capillary and lymphatic transport. *American Journal of Physiological Endocrinology & Metabolism* ;301(4). E659-67.
4. Kiewiet, R.M., Hazell, M.J., van Aken, M.O., van der Weerd, K., Visser, J.A., Themmen, A.P., van der Lely, A.J. (2011) Acute effects of acylated and unacylated ghrelin on total and high molecular weight adiponectin in morbidly obese subjects. *J Endocrinol Invest.*; 34(6):434-8.
5. Barber, T.M., Hazell, M., Christodoulides, C., Golding, S.J., Alvey, C., Burling, K., Vidal-Puig, A., Groome, N.P., Wass, J.A., Franks, S., McCarthy, M.I. (2008) Serum levels of retinol-binding protein 4 and adiponectin in women with polycystic ovary syndrome: associations with visceral fat but no evidence for fat mass-independent effects on pathogenesis in this condition. *Journal of Clinical Endocrinology & Metabolism Jul*;93(7):2859-65.
6. Sodi, R., Hazell, M.J., Durham, B.H., Rees, C., Ranganath, L.R., Fraser, W.D. (2009) The circulating concentration and ratio of total and high molecular weight adiponectin in post-menopausal women with and without osteoporosis and its association with body mass index and biochemical markers of bone metabolism. *Clinical Biochemistry Sep*;42(13-14):1375-80.