

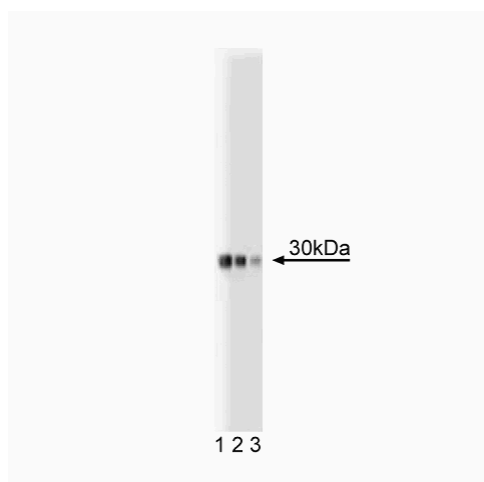
Technical Data Sheet

Purified Mouse Anti-Acrp30/Adiponectin**Product Information**

Material Number:	611645
Alternate Name:	Adiponectin
Size:	150 µg
Concentration:	250 µg/ml
Clone:	31/Acrp30
Immunogen:	Human Acrp30 aa. 1-247
Isotype:	Mouse IgG2a
Reactivity:	QC Testing: Human
Target MW:	30 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Adipocytes express a variety of proteins that function in the homeostatic control of glucose and lipid metabolism. Insulin regulates the translocation and secretion of many of these adipocyte proteins in response to homeostatic changes in energy balance. Both adiponectin and adipocyte complement-related protein of 30 kDa (Acrp30) are secretory proteins whose secretion from adipocytes is enhanced by insulin stimulation. Acrp30 contains N-terminal collagen repeats and a globular C-terminal domain. It is homologous to collagen type VIII and X and to complement factor C1q. Also, it forms homo-oligomeric structures of 90 and 300 kDa. The expression of Acrp30 increases 100 fold during adipocyte differentiation and it is commonly found in serum. Insulin stimulation of 3T3-L1 fibroblasts leads to a 4-fold increase in Acrp30 secretion. This secretion is regulated by PI3-kinase activity and may involve a secretory pathway that is distinct from other insulin-regulated secretory pathways, such as that involved with the translocation of glucose transporters and transferrin receptors. Thus, Acrp30 is an adipocyte secretory protein that functions in the regulation of energy homeostasis.



Western blot analysis of Acrp30 on plasma lysate. Lane 1; 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of Acrp30.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at -20°C.

Application Notes**Application**

Western blot	Routinely Tested
Immunofluorescence	Not Recommended

Suggested Companion Products

Catalog Number	Name	Size	Clone
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)

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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

- Bogan JS, Lodish HF. Two compartments for insulin-stimulated exocytosis in 3T3-L1 adipocytes defined by endogenous ACRP30 and GLUT4. *J Cell Biol.* 1999; 146(3):609-620.(Biology)
- Scherer PE, Williams S, Fogliano M, Baldini G, Lodish HF. A novel serum protein similar to C1q, produced exclusively in adipocytes. *J Biol Chem.* 1995; 270(45):26746-26749.(Biology)