

**Anti-human Leptin (92-145)_{cyclized} Monoclonal Antibody
Clone 2A4-A1**

Supplied as the IgG Fraction from Ascites Fluid

MC-5343

Lot # 9376

This IgG fraction was isolated from ascites fluid and contains mouse monoclonal antibody 2A4-A1 raised against synthetic human leptin (92-145)_{cyclized}. The 50 µg/ml of purified IgG fraction has been packaged in 0.10 ml of 10mg/ml BSA in PBS as carrier protein. This monoclonal antibody has been shown to bind to the carboxyl terminal region of the protein and has been found to bind to intact leptin specifically in ELISAs and by immunocytochemistry. It has been found to be mouse IgG_{2A} by isotyping.

Monoclonal Antibody Specificity

Polypeptide	% Cross Reactivity
Leptin (Human)	100
Leptin (92-145) _{cyclized}	100
Epidermal Growth Factor (Human)	0
Insulin (Human)	0
Insulin-like Growth Factor 1 (Human)	0
Insulin-like Growth Factor 2 (Rat)	0
Parathyroid hormone (Human)	0
Transforming Growth Factor-alpha (Human)	0

Immunofluorescent Staining of Cells

This monoclonal antibody has been found to stain specifically human adipocytes at a concentration of 0.25 µg/ml. The ability of this monoclonal antibody to bind to leptin in adipocytes was examined in cells fixed with neutral buffered formalin. The fixed cells were incubated for 20 min with 4% normal goat serum, reacted for 60 minutes with the diluted mouse monoclonal antibody, and then with FITC-conjugated goat anti-mouse IgG. The immunofluorescent staining pattern was observed using epifluorescent microscopy.