R&D ® Ab
Research & Diagnostic Antibodies
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Anti-human Leptin $(92\text{-}145)_{cyclized}$ Monoclonal Antibody Clone 2A4-A1

Supplied as Culture Supernatant

MC-5341 Lot # 9374

This culture supernatant contains anti-human leptin monoclonal antibody clone 2A4-A1 raised against human leptin $(92\text{-}145)_{cyclized}$. 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 $(92\text{-}145)_{cyclized}$	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 1:50 dilution. The ability of this monoclonal antibody to bind to leptin in adipocytes was examined in cells fixed with neutral buffered. 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 epifluorescence microscopy.