

# **Research & Diagnostic Antibodies**

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## Anti-human Leptin (131-145) Monoclonal Antibody Clone 8F7-A10

Supplied as Culture Supernatant

MC-5351 Lot # 9383

This culture supernatant contains anti-human leptin monoclonal antibody clone 8F7-A10 raised against synthetic human leptin (131-145) attached to a carrier protein. This monoclonal antibody has been shown to bind to the carboxyl terminal region of the intact protein. This monoclonal antibody has been shownd bind to intact leptin specifically in ELISAs, in western immunoblots and by immunocytochemistry. It has been found to be mouse IgG<sub>2A</sub> by isotyping.

#### **Monoclonal Antibody Specificity**

Polypeptide	% Cross Reactivity
Leptin (Human)	100
Leptin (131-145)	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 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 epifluorescense microscopy.

#### **Western Immunoblot**

Western immunoblots of adipocyte homogenates resulted in a single band being detected at  $\sim 16$  kDa at a dilution of 1:100.

### **Western Blotting Protocol**

- 1. After SDS-PAGE on 12% percent gels and electrophoretic transfer to PVDF membrane, block the membrane overnight with 4% normal goat serum in TBS/Tween-20 buffer.
- 2. Wash x 2 with TBS/Tween-20.
- 3. Apply the mouse monoclonal antibody after preparing a 1:100 dilution. Use 2% normal goat serum in TBS/Tween-20. Let the primary antibody bind for 2-4 hours.
- 4. Wash x 3 with TBS/Tween-20.
- 5. Apply affinity purified HRP-goat anti-mouse IgG antiserum diluted 1:2500 (dilution may vary depending upon supplier) in 2% normal goat serum in TBS/Tween-20. Incubate 1-2 hours. Note: greater sensitivity may be achieved using ABC techniques.
- 6. Wash for 5 min x 4 in TBS/Tween-20.
- 7. Develop color using the enhanced DAB reaction.