R&D® Ab
Research & Diagnostic Antibodies
2645 W. Cheyenne Ave, N. Las Vegas, NV 89032 Phone: 702-638-7800

Anti-human Insulin-like Growth Factor 1 Monoclonal Antibody 1F6-3H10

Supplied as Culture Supernatant

MC-2710 Lot # 7995

This culture supernatant contains mouse monoclonal antibody 1F6-3H10 raised against recombinant hIGF-1. This monoclonal antibody has been found to stain specifically hIGF-1 by indirect ELISA. This monoclonal antibody was tested for recognition of Insulin and other growth factors by ELISA techniques. It has been found to be a mouse IgG1 Kappa by isotyping. This culture supernatant has been sterile filtered and sterile packaged.

Monoclonal Antibody Specificity

Polypeptide	% Cross Reactivity
hIGF-1	100
hIGF-2	0
Insulin (human)	0
EGF(human)	0
TGFα (human)	0

Indirect ELISA

This monoclonal antibody containing culture supernatant has been found by indirect ELISA to bind to hIGF-1. Titration experiments show the titer to greater than 1:500 by indirect ELISA.

Western Immunoblot

Western immunoblots resulted in a single band being detected at ~ 7.5 kDa at a dilution of 1:200.

Western Blotting Protocol

1. After SDS-PAGE (on either 4-15% gradient gels or single percentage gels, such at 12% 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 culture supernatant after dilution at least 1:200. (Note: higher dilutions may be needed) Use 2% normal goat serum in TBS/Tween-20 as buffer for the primary antibody. Let the primary antibody bind for 2-4 hours.
4. Wash x 4 for at least 5 min per wash cycle with TBS/Tween-20.
5. Apply affinity purified HRP-goat anti-mouse IgG antiserum diluted 1:2500 (Note: dilution may vary depending upon supplier) in 2% normal goat serum in TBS/Tween-20 buffer. Incubate 1-2 hours. Note: greater sensitivity may be achieved using ABC techniques.
6. Wash x 6 for at least 5 min per wash cycle in TBS/Tween-20.
7. Develop color using the enhanced DAB reaction.