

Anti-FGF1 Antibody (6Y815)

Product Details

| | |
|---------------|-------------------------|
| Ig Type: | mIgG2a |
| Reactivity: | Human |
| Conjugation: | Unconjugated |
| Clone: | 6Y815 |
| Purification: | Affinity-chromatography |

Applications

| | |
|--------------------|--|
| Verified Activity: | 1. Immunofluorescence staining of U251 cell with TMAH-00428 at 1:200, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Mouse IgG(H+L). |
| | 2. Overlay Peak curve showing PC-3 cells stained with TMAH-00428 (red line) at 1:200. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1ug/1*10 ⁶ cells) for 45min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-Mouse IgG (H+L) at 1:200 dilution for 35min at 4°C. Control antibody (green line) was mouse IgG (1ug/1*10 ⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed. |
| Application: | ELISA,FCM,IF |
| Recommended | IF:1:50-1:200; FCM:1:50-1:200. |

Properties

| | |
|----------------------|---|
| Stability & Storage: | Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. |
| Shipping: | Shipping with blue ice. |

Antigen Details

| | |
|------------------|---|
| Immunogen: | Recombinant Protein: Human FGF1 Protein |
| Antigen Species: | Human |
| Gene ID: | 2246 |
| Uniprot ID: | P05230 |
| Synonyms: | ECGF-beta; ECGF; GLIO703; FGF-alpha; HBGF-1; FGFA; ECGFB; ECGF-β; FGF-α; AFGF; FGF-1; HBGF1; fibroblast growth factor 1 (acidic); ECGFA |
| Biology Area: | Neuroscience, Cancer, Cardiovascular, Signal transduction |

Research Background

Plays an important role in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. Functions as potent mitogen in vitro. Acts as a ligand for FGFR1 and integrins. Binds to FGFR1 in the presence of heparin leading to FGFR1 dimerization and activation via sequential autophosphorylation on tyrosine residues which act as docking sites for interacting proteins, leading to the activation of several signaling cascades.

A DRUG SCREENING EXPERT

Binds to integrin ITGAV:ITGB3. Its binding to integrin, subsequent ternary complex formation with integrin and FGFR1, and the recruitment of PTPN11 to the complex are essential for FGF1 signaling. Induces the phosphorylation and activation of FGFR1, FRS2, MAPK3/ERK1, MAPK1/ERK2 and AKT1. Can induce angiogenesis.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481