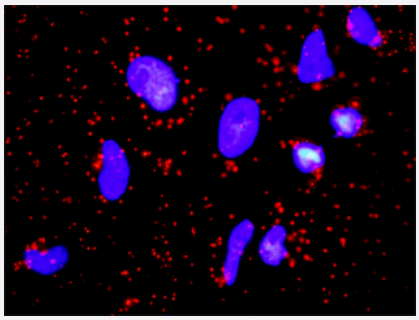
FGF1 monoclonal antibody (M01), clone 3F5

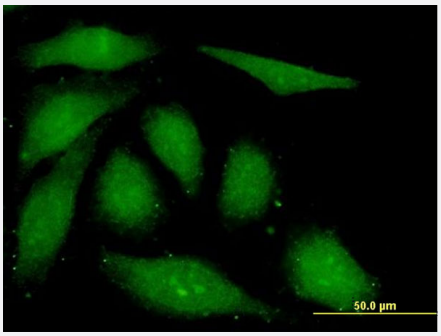
Catalog # H00002246-M01 Size 100 ug

Applications



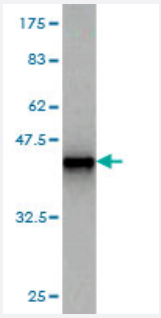
In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between FGFR2 and FGF1. HeLa cells were stained with anti-FGFR2 rabbit purified polyclonal 1:1200 and anti-FGF1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



Immunofluorescence

Immunofluorescence of monoclonal antibody to FGF1 on HeLa cell . [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (37.73 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant FGF1.

Immunogen	FGF1 (AAH32697, 46 a.a. ~ 155 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	VDGTRDRSDQHIQLQLSAESVGEVYIKSTETGQYLAMDTDGLLYGSQTPNEECLFLERLEENHYNT YISKKHAEKNWFVGLKKNGSCKRGPRTHYGQKAILFLPLPVSSD
Host	Mouse
Reactivity	Human
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.73 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

  Protocol Download

- ELISA

- *In situ* Proximity Ligation Assay (Cell)

  Proximity Ligation Analysis of protein-protein interactions between FGFR2 and FGF1. HeLa cells were stained with anti-FGFR2 rabbit purified polyclonal 1:1200 and anti-FGF1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

- Immunofluorescence

  Immunofluorescence of monoclonal antibody to FGF1 on HeLa cell . [antibody concentration 10 ug/ml]

Gene Info — FGF1

Entrez GeneID	2246
GeneBank Accession#	BC032697
Protein Accession#	AAH32697
Gene Name	FGF1

Gene Alias	AFGF, ECGF, ECGF-beta, ECGFA, ECGFB, FGF-alpha, FGFA, GLIO703, HBGF1
Gene Description	fibroblast growth factor 1 (acidic)
Omim ID	131220
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This protein functions as a modifier of endothelial cell migration and proliferation, as well as an angiogenic factor. It acts as a mitogen for a variety of mesoderm- and neuroectoderm-derived cells in vitro, thus is thought to be involved in organogenesis. Multiple alternatively spliced variants encoding different isoforms have been described. [provided by RefSeq
Other Designations	OTTHUMP00000066028|OTTHUMP00000066030|OTTHUMP00000066031|OTTHUMP00000174675|endothelial cell growth factor, alpha|endothelial cell growth factor, beta|heparin-binding growth factor 1

Publication Reference

- Acidic Fibroblast Growth Factor (FGF) Potentiates Glial-mediated Neurotoxicity by Activating FGFR2 IIIb Protein.

  Lee M, Kang Y, Suk K, Schwab C, Yu S, McGeer PL.

  The Journal of Biological Chemistry 2011 Dec; 286(48):41230.

  Application: WB-Ce, Human, THP-1, U373, SH-SY5Y, NT-2, SK-N-MC cells, Microglia, Astrocytes

Pathway

- MAPK signaling pathway
- Melanoma
- Pathways in cancer
- Regulation of actin cytoskeleton

Disease

- Alzheimer disease

- Arthritis
- Cardiovascular Diseases
- Celiac Disease
- Chorioamnionitis
- Cleft Lip
- Cleft Palate
- Diabetes Complications
- Endometriosis
- Fetal Membranes
- Genetic Predisposition to Disease
- Hepatitis C
- Hyperparathyroidism
- Hypertension
- Intracranial Aneurysm
- Metabolic Syndrome X
- Multiple Sclerosis
- Neoplasms
- Neovascularization
- Obstetric Labor
- Osteoporosis
- Pre-Eclampsia
- Premature Birth
- Schizophrenia