

Product Datasheet

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Anti-FGFR1 [Clone M5G10]

Monoclonal

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

410 Axminister Dr, St. Louis, MO 63026

(800) 538-1145

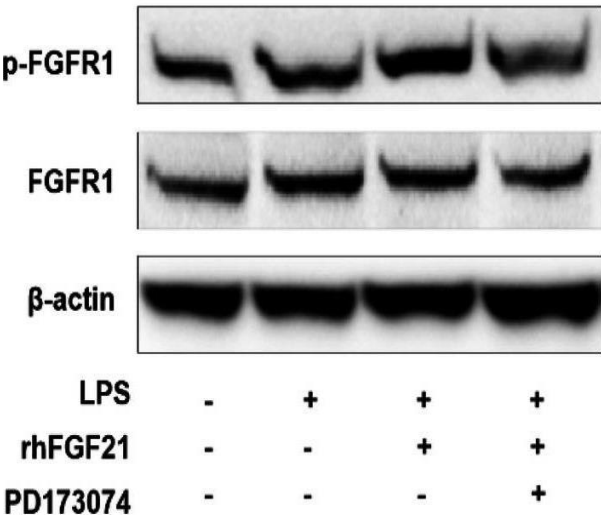
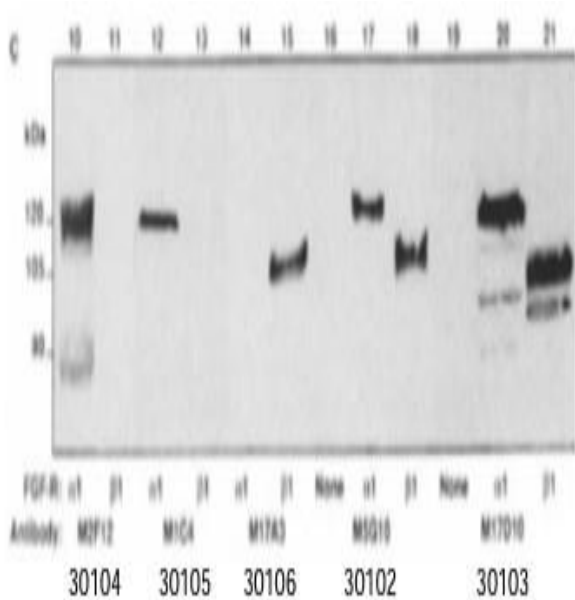
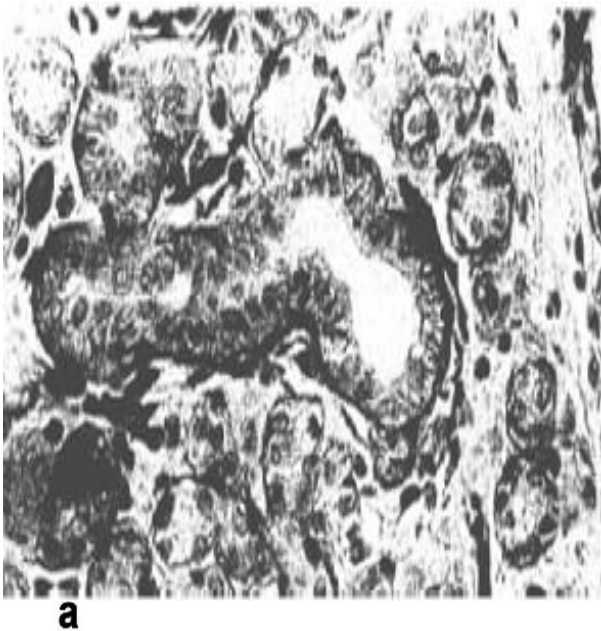
leincoglobal@leinco.com

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Product Information

Product No.: 30102
Clone: M5G10
Isotype: Mouse Mouse IgG1



Product Description

Specificity:

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Clone M5G10 monoclonal antibody is specific to both α (denatured) and β isoforms of FGF Receptor 1 (FGFR1). Epitope is within the sequence his241 and val267 between Ig loops II and III. Epitope is masked in undenatured FGFR1 α .

Background:

The fibroblast growth factor (FGF) family is a group of multi-functional polypeptides that function in embryonic development, tissue repair, neuronal cell survival, cardiovascular disease, and tumorigenesis. The biological activities of FGF are mediated by cell surface receptors that have tyrosine kinase activity. FGFR-1 is activated by FGF-1 and FGF-2. In neoplastic cells, overexpression of FGF-1, FGF-2 and FGF receptors appear to contribute to cellular transformation and proliferation.

Why Choose Our Anti-FGFR1 (Clone M5G10) Antibody?

Central Mediator of FGF Signaling: FGFR1 is a crucial receptor tyrosine kinase that orchestrates the diverse biological activities of the Fibroblast Growth Factor (FGF) family. These multifunctional polypeptides are vital regulators in processes ranging from early embryonic development and tissue repair to neuronal cell survival. Our M5G10 clone provides a precise probe for detecting and analyzing this pivotal receptor.

Activated by Key Ligands: FGFR1 is specifically activated by its high-affinity ligands, FGF-1 and FGF-2. Understanding these interactions is fundamental to deciphering downstream signaling pathways and cellular responses. This antibody enables robust detection of FGFR1, allowing researchers to study its activation and role in various cellular contexts. *Critical in Cancer Research:* Dysregulation of FGFR1 signaling is frequently implicated in tumorigenesis and cancer progression. Overexpression of FGF-1, FGF-2, and various FGFR family members, including FGFR1, is known to contribute significantly to cellular transformation and uncontrolled cell proliferation in neoplastic cells.

Versatile Applications for Comprehensive Analysis: Clone M5G10 is rigorously validated for use in a wide array of experimental techniques, providing researchers with flexible options for their studies

Known Reactivity Species:

Human

Format:

Purified

Immunogen:

Recombinant human ectodomain of FGFR-1b expressed in E. coli beginning with proline 23; antigen contained NH₂-terminal gly-ser-pro-gly-ile and COOH-terminal glu-phe sequences.

Formulation

This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added.

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Storage and Stability

This antibody is stable for at least one (1) year at -20°C to -70°C. **Store product in appropriate aliquots to avoid multiple freeze-thaw cycles.**

Product Preparation

Purified by Protein G affinity chromatography

Applications

Applications and Recommended Usage (Quality Tested By Leinco):

Immunohistochemistry: 10ug/ml, paraffin- embedded tissue.

Immunoblotting: 1ug/ml recognizes 10ng recombinant bacterial, baculoviral or native FGFR1.

Immunoprecipitation: native, recombinant, and ligand-labeled FGFR1.

Country of Origin

USA

References

Xu et al. (1992) J Biol Chem 267: 17792

Wang et al. (1995) J Biol Chem 270: 10231

Myoken et al. (1996) J Pathol 178: 429

Kong, S., Cao, Y. (2020), et al. Cell Mol Med. 24(8):4677-4686

FGF21 alleviates neuroinflammation following ischemic stroke by modulating the temporal and spatial dynamics of microglia/macrophages. *J Neuroinflammation* (2020) [32867781]

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