

Human FGF R4 Alexa Fluor® 405-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 240929

Catalog Number: FAB6852V

00 µg

| DESCRIPTION | | | |
|--------------------|--|--|--|
| Species Reactivity | Human | | |
| Specificity | Detects human FGF R4 in direct ELISAs and Western blots. In Western blots, less than 5% cross-reactivity with recombinant mouse FGF R4 and recombinant human FGF R5 is observed and no cross-reactivity with any isoform of rhFGF R1, rhFGF R2, or rhFGF R3 is observed. | | |
| Source | Monoclonal Rat IgG _{2A} Clone # 240929 | | |
| Purification | Protein A or G purified from hybridoma culture supernatant | | |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant human FGF R4 Leu22-Asp369 (predicted) Accession # P22455 | | |
| Conjugate | Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm | | |
| Formulation | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. | | |
| | *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. | | |

| | Recommended | Sample |
|----------------|---------------------------------|-------------------------------------|
| | Concentration | |
| Flow Cytometry | 0.25-1 μg/10 ⁶ cells | MCF-7 human breast cancer cell line |

| PREPARATION AND STORAGE | | |
|-------------------------|---|--|
| Shipping | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. | |
| Stability & Storage | Protect from light. Do not freeze. | |
| | 12 months from date of receipt, 2 to 8 °C as supplied. | |

BACKGROUND

APPLICATIONS

Fibroblast growth factors (FGFs) comprise a family of at least eighteen structurally related proteins that are involved in a multitude of physiological and pathological cellular processes, including cell growth, differentiation, angiogenesis, wound healing and tumorgenesis. The biological activities of the FGFs are mediated by a family of type I transmembrane tyrosine kinases which undergo dimerization and autophosphorylation after ligand binding. Four distinct genes encoding closely related FGF receptors, FGF R1-4, are known. All four genes for FGF Rs encode proteins with an N-terminal signal peptide, three immunoglobulin (Ig)-like domains, an acid-box region containing a run of acidic residues between the Igl and IglI domains, a transmembrane domain and the split tyrosine-kinase domain. Multiple forms of FGF R1-3 are generated by alternative splicing of the mRNAs. A frequent splicing event involving FGF R1 and 2 results in receptors containing all three Ig domains, referred to as the α isoform, or only IgII and IgIII, referred to as the β isoform. Only the α isoform has been identified for FGF R3 and FGF R4. Additional splicing events for FGF R1-3, involving the C-terminal half of the IgIII domain encoded by two mutually exclusive alternative exons, generate FGF receptors with alternative IgIII domains (IIIb) and IIIc). A IIIa isoform which is a secreted FGF binding protein containing only the N-terminal half of the IgIII domain plus some intron sequences has also been reported for FGF R1. Mutations in FGF R1-3 have been found in patients with birth defects involving craniosynostosis. The complex patterns of expression of these receptors as well as the specificity of their interactions with the various FGF Iligand family members are under investigation.

References:

- 1. Galzie, Z. et al. (1997) Biochem. Cell Biol. 75:669
- 2. Burke, D. et al. (1998) Trends Biochem. Sci. 23:59.

PRODUCT SPECIFIC NOTICES

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