# Human FGF-10 Antibody

Monoclonal Mouse $IgG_{2B}$ Clone # 186803

Catalog Number: MAB345

## DESCRIPTION

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|---|---|
| **Species Reactivity** | Human |
| **Specificity** | Detects human FGF-10 in Western blots. Does not cross-react with recombinant human FGF-3, -5, -6, -7, -9, -13, or -19. |
| **Source** | Monoclonal Mouse $IgG_{2B}$ Clone # 186803 |
| **Purification** | Protein A or G purified from hybridoma culture supernatant |
| **Immunogen** | *E. coli*-derived recombinant human FGF-10<br>Cys37-Ser208<br>Accession # O15520 |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS. |

## APPLICATIONS

**Please Note:** *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

| | Recommended Concentration | Sample |
|---|---|---|
| **Western Blot** | 1 µg/mL | Recombinant Human FGF-10 (Catalog # 345-FG) |

## PREPARATION AND STORAGE

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| **Reconstitution** | Reconstitute at 0.5 mg/mL in sterile PBS. |
| **Shipping** | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| **Stability & Storage** | **Use a manual defrost freezer and avoid repeated freeze-thaw cycles.**<br>● 12 months from date of receipt, -20 to -70 °C as supplied.<br>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.<br>● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

## BACKGROUND

The FGFs are a growing family of heparin-binding growth factors that show a variety of biological activities toward cells of mesenchymal, neuronal and epithelial origin. All FGFs have two conserved cysteine residues and share significant amino acid sequence homology. FGF-10 was originally identified from rat embryos by homology-based polymerase chain reaction. Human and mouse FGF-10 were subsequently cloned. The human FGF-10 cDNA encodes a 208 amino acid residue protein with a hydrophobic amino-terminal signal peptide. Human FGF-10 shares approximately 92% and 95% amino acid sequence identity with mouse and rat FGF-10, respectively. Among the FGF family members, FGF-10 is most closely related to FGF-7. The expression of FGF-10 transcripts has been shown to be most abundant in the embryo and adult lung. Recombinant FGF-10 preparations have been shown to be mitogenic for epithelial and epidermal cells but not fibroblasts. Based on its *in vitro* biological activities and *in vivo* expression pattern, FGF-10 has been proposed to play unique roles in the brain, in lung development, wound healing and limb bud formation.

**References:**


1. Yamasaki, M. *et al.* (1996) J. Biol. Chem. **271**:15918.
2. Emoto, H. *et al.* (1997) J. Biol. Chem. **272**:23191.
3. Ohuchi, H. *et al.* (1997) Development **124**:2235.
4. Tagashira, S. *et al.* (1997) Gene **197**:399.
5. Bellusci, S. *et al.* (1997) Development **124**:4867.




Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449