

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse FGF R4 in Western blots. In Western blots, approximately 35% cross-reactivity with recombinant human (rh) FGF R4 is observed and less than 5% cross-reactivity with rhFGF R1 α (IIIb), rhFGF R1 α (IIIc), rhFGF R1 β (IIIb), rhFGF R1 β (IIIc), recombinant mouse (rm) FGF R2 α (IIIb), rmFGF R2 α (IIIc), rmFGF R2 β (IIIb), rmFGF R2 β (IIIc), rmFGF R5, and rmFGF R5 β is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse FGF R4 Leu19-Asp366 Accession # CAA42551
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

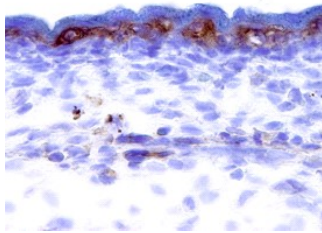
APPLICATIONS

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	0.1 μ g/mL	Recombinant Mouse FGF R4
Immunohistochemistry	5-15 μ g/mL	See Below

DATA

Immunohistochemistry



FGF R4 in Mouse Embryo. FGF R4 was detected in immersion fixed frozen sections of mouse embryo (E11.5) using Goat Anti-Mouse FGF R4 Biotinylated Antigen Affinity-purified Polyclonal Antibody (Catalog # BAF2265) at 15 μ g/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to the epidermis. View our protocol for [Chromogenic IHC Staining of Frozen Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

FGF R4 is a transmembrane receptor tyrosine kinase that binds several ligands of the FGF family. It is expressed in the early embryo, and its expression has been suggested to play an important role in the formation of mesoderm and posterior structure (1). Recent studies also indicated that FGF R4 may be used as a marker to distinguish neural stem cells from other precursor cells (2). The extracellular domain of mouse FGF R4 shares 95% and 89% amino acid sequence homology with its rat and human homologs, respectively.

References:

1. Umbhauer, M.J. *et al.* (2000) *J. Cell Sci.* **113**:2865.
2. Cai, J. (2002) *Dev. Biol.* **251**:221.