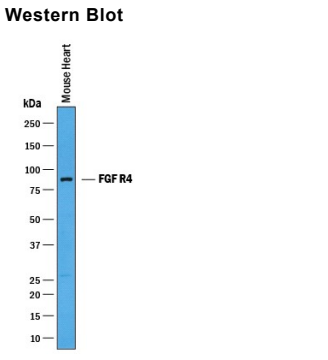
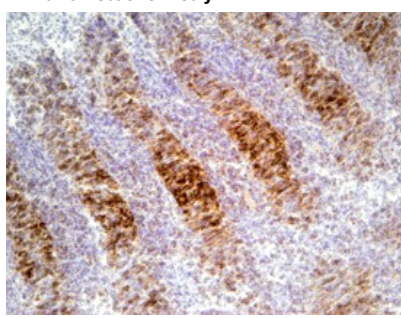


DESCRIPTION	
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse FGF R4 in direct ELISAs and Western blots. In direct ELISAs, approximately 15% cross-reactivity with recombinant human (rh) FGF R4 is observed and less than 1% cross-reactivity with recombinant mouse (rm) FGF R3α (IIIb) is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse FGF R4 Leu19-Asp366 Accession # CAA42551
<b>Endotoxin Level</b>	<0.10 EU per 1 µg of the antibody by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS		
<b>Please Note:</b> Optimal dilutions should be determined by each laboratory for each application. <i>General Protocols</i> are available in the <i>Technical Information</i> section on our website.		
	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.25 µg/mL	See Below
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below

DATA	
<p><b>Western Blot</b></p>  <p><b>Detection of Mouse FGF R4 by Western Blot.</b> Western blot shows lysates of mouse heart tissue. PVDF membrane was probed with 0.25 µg/mL of Goat Anti-Mouse FGF R4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2265) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for FGF R4 at approximately 89 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p><b>Immunohistochemistry</b></p>  <p><b>FGF R4 in Mouse Embryo.</b> FGF R4 was detected in immersion fixed frozen sections of mouse embryo (11.5 d.p.c.) using Goat Anti-Mouse FGF R4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2265) at 5 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell &amp; Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to cartilage. View our protocol for <a href="#">Chromogenic IHC Staining of Frozen Tissue Sections</a>.</p>

PREPARATION AND STORAGE	
<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**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.