



20150130ML

# Anti-Human FGF-5 (#8M27)

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>101-M410</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a mouse) immunized with human recombinant protein of fibroblast growth factor-5 (FGF-5).

## Target Background

<b>Synonyms (Target):</b>	FGF5; HBGF-5; Smag-82
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The FGF family is comprised of at least seven polypeptides that are potent regulators of cell proliferation, differentiation and function. All FGFs have two conserved cysteine residues and share 30-50% sequence homology at the amino acid level. FGF5 was originally identified as a transforming gene by the NIH3T3 focus formation assay using DNA derived from human tumors. FGF5 cDNA encodes a 267 amino acid residue protein with a putative 22 amino acid residue signal peptide. The murine homologue of FGF5 was cloned and found to be 84% homologous to the human protein at the amino acid sequence level. Human and murine FGF5 exhibit cross species activity. In vitro, recombinant human FGF5 is a mitogen for Balb/3T3 fibroblasts and bovine heart endothelial cells. FGF5 was also reported to be a major muscle-derived survival factor for cultured spinal moto-neurons.

## Database References Target

<b>Protein RefSeq:</b>	NP_004455
<b>Uniprot ID:</b>	P12034
<b>mRNA RefSeq:</b>	NM_004464

## Product Specifications

<b>Host</b>	Mouse
<b>Reactivity against</b>	Human
<b>Clonality</b>	Monoclonal Antibody
<b>Clone</b>	(#8M27)
<b>Isotype</b>	IgG1
<b>Purification</b>	Protein G chromatography
<b>Antigen</b>	Recombinant human FGF-5
<b>Formulation</b>	lyophilized
<b>Reconstitution buffer</b>	PBS (sterile)

**Reconstitution:** Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

**Stability:** Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

**Remarks:** This antibody was selected for its ability to detect human FGF-5.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

## Applications

The antibody can be used within the following applications:

WB, IHC (P)

**Recommended usage:**

Western Blot: 1:500 - 1:1000

IHC (paraffine): 1:20 - 1:100

**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**