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FGF8 Antibody (monoclonal) (M05)

Mouse monoclonal antibody raised against a full length recombinant FGF8.
Catalog # AT2036a

Product Information

Application	E
Primary Accession	P55075
Other Accession	NM_033164
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2A11
Calculated MW	26525

Additional Information

Gene ID	2253
Other Names	Fibroblast growth factor 8, FGF-8, Androgen-induced growth factor, AIGF, Heparin-binding growth factor 8, HBGF-8, FGF8, AIGF
Target/Specificity	FGF8 (NP_149354, 65 a.a. ~ 133 a.a) full length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	FGF8 Antibody (monoclonal) (M05) is for research use only and not for use in diagnostic or therapeutic procedures.

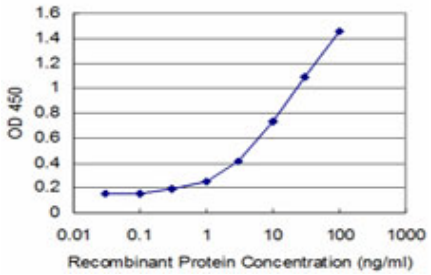
Background

The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This protein is known to be a factor that supports androgen and anchorage independent growth of mammary tumor cells. Overexpression of this gene has been shown to increase tumor growth and angiogensis. The adult expression of this gene is restricted to testes and ovaries. Temporal and spatial pattern of this gene expression suggests its function as an embryonic epithelial factor. Studies of the mouse and chick homologs revealed roles in midbrain and limb development, organogenesis, embryo gastrulation and left-right axis determination. The alternative splicing of this gene results in four transcript variants.

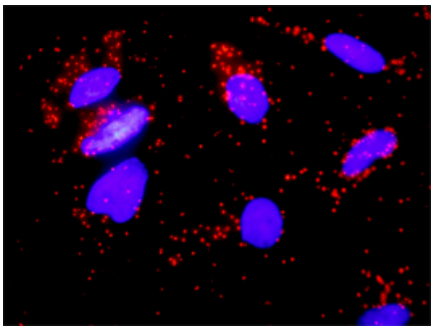
References

Maternal genes and facial clefts in offspring: a comprehensive search for genetic associations in two population-based cleft studies from Scandinavia. Jugessur A, et al. PLoS One, 2010 Jul 9. PMID 20634891.Nonsense mutations in FGF8 gene causing different degrees of human gonadotropin-releasing deficiency. Trarbach EB, et al. J Clin Endocrinol Metab, 2010 Jul. PMID 20463092.FGF-8b induces growth and rich vascularization in an orthotopic PC-3 model of prostate cancer. Valta MP, et al. J Cell Biochem, 2009 Jul 1. PMID 19415685.Decreased FGF8 signaling causes deficiency of gonadotropin-releasing hormone in humans and mice. Falardeau J, et al. J Clin Invest, 2008 Aug. PMID 18596921.Involvement of FGF and BMP family proteins and VEGF in early human kidney development. Carev D, et al. Histol Histopathol, 2008 Jul. PMID 18437684.

Images



Detection limit for recombinant GST tagged FGF8 is approximately 0.3ng/ml as a capture antibody.



Proximity Ligation Analysis of protein-protein interactions between FGFR2 and FGF8. HeLa cells were stained with anti-FGFR2 rabbit purified polyclonal 1:1200 and anti-FGF8 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).