



Anti-FGF7 monoclonal antibody, clone 30633 (DCABY-4027)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The FGF family is comprised of at least nine polypeptides that show a variety of biological activities toward cells of mesenchymal, neuronal and epithelial origin. All FGFs have two conserved cysteine residues and share 30 - 50% sequence identity at the amino acid level. KGF/FGF-7 was originally isolated from the conditioned medium of a human embryonic lung fibroblast cell line as a mitogen that is specific for epithelial cells. The transcript for KGF/FGF-7 can be detected in stromal but not epithelial cells from various epithelial tissues. It has been proposed that KGF is a mesenchymal cell-derived paracrine growth factor that specifically stimulates epithelial cell growth. The KGF cDNA encodes a 194 amino acid precursor protein from which the N-terminal 31 amino acid residues are cleaved to generate the mature KGF. Human KGF exhibits species cross-reactivity and is active on mouse, monkey, and porcine cells. A high affinity receptor for KGF has been cloned and shown to be an alternatively spliced isoform of FGF R2/bek. Whereas FGF R2 binds FGF acidic and FGF basic but not KGF with high affinity, the alternately spliced KGF/FGF-7 R can bind KGF and FGF acidic with high affinity.
Specificity	Detects human KGF/FGF-7 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh)FGF-3, rhFGF-4, rhFGF-5, rhFGF-6, rhFGF acidic, or rhFGF basic is observed.
Immunogen	E. coli-derived recombinant human KGF/FGF-7. Cys32-Thr194 Accession Number P21781
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	30633
Purification	Protein A or G purified from ascites

Conjugate	Unconjugated
Applications	ELISA Capture (Matched Pair), Neutralization
Format	Liquid
Size	500 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.
Preservative	None
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 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.

GENE INFORMATION

Gene Name	FGF7 fibroblast growth factor 7 [Homo sapiens (human)]
Official Symbol	FGF7
Synonyms	FGF7; fibroblast growth factor 7; KGF; HBGF-7; FGF-7; keratinocyte growth factor; heparin-binding growth factor 7;
Entrez Gene ID	2252
Protein Refseq	NP_002000
UniProt ID	P21781
Chromosome Location	15q21.2
Pathway	Activated point mutants of FGFR2; Adaptive Immune System; Constitutive PI3K/AKT Signaling in Cancer; DAP12 interactions; DAP12 signaling; Disease; Downstream signal transduction; Downstream signaling events of B Cell Receptor (BCR);
Function	chemoattractant activity; fibroblast growth factor receptor binding; growth factor activity; heparin binding; protein binding;