Anti-Human KGF / FGF-7 (#12Z7)

20150213L

FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	**101-M536**
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 KGF (also called FGF-7).

Target Background

Synonyms (Target):	KGF, FGF-7, FGF7

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.

Database References Target

Protein RefSeq:	NP_002000
Uniprot ID:	P21781
mRNA RefSeq:	NM_002009

Product Specifications

Host	Mouse
Reactivity against	Human
Clonality	Monoclonal Antibody
Clone	(#12Z7)
Isotype	IgG2
Purification	Protein G chromatography
Antigen	human recombinant KGF
Formulation	lyophilized
Reconstitution buffer	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 KGF.

AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

The antibody can be used within the following applications:

WB

Recommended usage:

Western Blot: 1:500 - 1:1000

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