Active Recombinant Human Fibroblast Growth Factor Binding Protein 1, His-tagged

Cat. No. FGFBP1-548H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FGFBP1protein was expressed in Murine myeloma cell line with a C-terminal 10-Histag. Lys24-Cys234 & Asn29-Cys234.
Species	Human
Source	Mammalian Cells
ProteinLength	24-234;29-234 a.a.
Description	Fibroblast growthfactor binding protein (FGFBP1), also known as HBP17, is a secretedglycoprotein that increases the bioavailability of FGFs. Mature FGFBP1 is a34 kDa, 211 amino acids (aa) O-glycosylated protein with five conserved intrachaindisulfide bonds. FGFBP1 contains a heparinbinding domain (aa 110-143) and adistinct FGF binding region (aa 193-243). Mature human FGFBP1 shares 59% and54% aa sequence identity with mouse and rat FGFBP1, respectively. FGFBP1 isexpressed throughout development and in adult squamous epithelium.
Form	Lyophilized from a0.2 μm filtered solution in PBS.
N-terminalSequence	Lys24 & Asn29
Molecular Weight	25.2 kDa& 24.6 kDa
Activity	Measuredby its binding ability in a functional ELISA. 1 μg/mL of rhFGFBP1 was

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	mixedwith serially diluted rhFGF basic. Following incubation, the FGFBP-FGF basiccomplex was captured on a Gt x hFGFBP-coated plate. Bound FGF basic wasmeasured using biotinylated Gt x hFGF basic. The concentration of rhFGF basicthat produces 50% of the optimal binding was found to be approximately 5-20ng/mL.
Endotoxin Level	<1.0 EUper 1 μg of the protein by the LAL method.
SDS-PAGE	31-35kDa, reducing conditions
Purity	>95%,by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstituteat 100 μg/mL in sterile PBS
Storage	Use a manualdefrost freezer and avoid repeated freeze-thaw cycles. 12 months from date ofreceipt, -20 to -70°C as supplied. 1 month, 2 to 8 °C under sterile conditionsafter reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	FGFBP1 fibroblast growth factorbinding protein 1 [Homo sapiens]
Official Symbol	FGFBP1
Synonyms	FGFBP1; fibroblastgrowth factor binding protein 1; FGFBP; HBP17; FGF-BP; FGF-BP1; FGFBP-1;FGF-binding protein 1; 17 kDa heparin-binding growth factor-binding protein;17 kDa HBGF-binding protein; heparin-binding growth factor binding protein
Gene ID	9982

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mRNA Refseq	NM_005130
Protein Refseq	NP_005121
MIM	607737
UniProt ID	Q14512
Chromosome Location	4p15.32
Function	fibroblast growthfactor binding; heparin binding; protein binding

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