ARG83024
Human HB EGF ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG83024 Human HB EGF ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human HB EGF in serum, plasma (heparin), ascites, urine and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	Not cross-reacts with: Human Amphiregulin, Betacellulin, EGF, EGF R, Epigen, Epiregulin, NRG1F alpha, NRG1 beta1, TGF alpha.
Target Name	HBEGF
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	3.9 pg/ml
Sample Type	Serum, plasma (heparin), ascites, urine and cell culture supernatants.
Standard Range	7.8-500 pg/ml
Sample Volume	100 µl
Alternate Names	HBEGF, Heparin Binding EGF Like Growth Factor, HEGFL, DTR, DTS, Diphtheria Toxin Receptor (Heparin-Binding Epidermal Growth Factor Like Growth Factor), Diphtheria Toxin Receptor (Heparin Binding EGF-Like Growth Factor), Proheparin Binding EGF Like Growth Factor, Heparin Binding Epidermal Growth Factor, Heparin-Binding EGF-Like Growth Factor, DTSF

Application Instructions

Assay Time	~ 4 hours

Properties

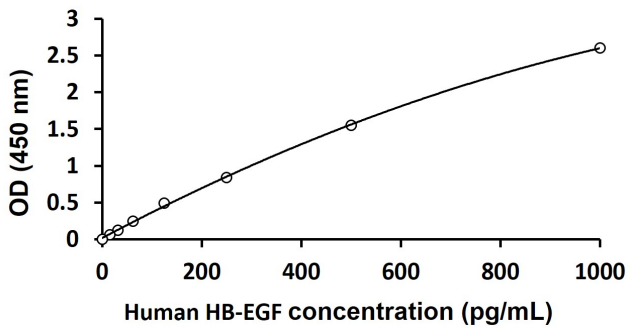
Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	HBEGF
Gene Full Name	Heparin Binding EGF Like Growth Factor
Background	Enables growth factor activity and heparin binding activity. Involved in several processes, including epidermal growth factor receptor signaling pathway; positive regulation of protein kinase B signaling; and positive regulation of wound healing. Located in cell surface and extracellular space. Implicated in

	glomerulosclerosis and perinatal necrotizing enterocolitis. [provided by Alliance of Genome Resources, Apr 2022]
Function	Growth factor that mediates its effects via EGFR, ERBB2 and ERBB4. Required for normal cardiac valve formation and normal heart function. Promotes smooth muscle cell proliferation. May be involved in macrophage-mediated cellular proliferation. It is mitogenic for fibroblasts, but not endothelial cells. It is able to bind EGF receptor/EGFR with higher affinity than EGF itself and is a far more potent mitogen for smooth muscle cells than EGF. Also acts as a diphtheria toxin receptor. [UniProt]
PTM	Several N-termini have been identified by direct sequencing. The forms with N-termini 63, 73 and 74 have been tested and found to be biologically active. [UniProt]
Cellular Localization	Cell membrane, Membrane, Secreted. [UniProt]

Images



ARG83024 Human HB EGF ELISA Kit standard curve image

ARG83024 Human HB EGF ELISA Kit results of standard run with optical density reading at 450 nm