

ARG81454 Human HB EGF ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81454-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81454-002	Standard	2 X 10 ng/vial	4°C
ARG81454-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81454-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81454-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81454-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81454-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81454-008	25X Wash buffer	20 ml	4°C
ARG81454-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81454-010	STOP solution	10 ml (Ready to use)	4°C
ARG81454-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81454 Human HB EGF ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human HB EGF in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	HB EGF
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	3.9 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	7.8 - 500 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.1% Inter-Assay CV: 5.7%
Alternate Names	Diphtheria toxin receptor; HBEGF; HB-EGF; HEGFL; Proheparin-binding EGF-like growth factor; DTSF; DT-R; DTS; DTR

Application Instructions

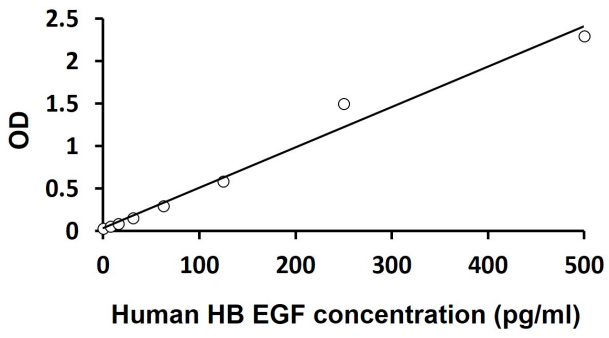
Assay Time	~ 5 hours
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Properties

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
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]
Highlight	<p>Related products:</p> <p>Related news: Detecting MMPs and their non-ECM substrates New ELISA data calculation tool: Simplify the ELISA analysis by GainData</p>
PTM	<p>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.</p> <p>O-glycosylated with core 1 or possibly core 8 glycans. Thr-47 is a minor glycosylation site compared to Thr-44. [UniProt]</p>



ARG81454 Human HB EGF ELISA Kit standard curve image

ARG81454 Human HB EGF ELISA Kit results of a typical standard run with optical density reading at 450 nm.