

ARG83510 arigoPLEX® Human Angiogenic Marker Multiplex ELISA kit (VEGF, FGF basic, HGF, IL6)

Package: 96 wells
Store at: 4°C, -20°C

Summary

Product Description	ARG83510 arigoPLEX® Human Angiogenic Marker Multiplex ELISA kit (VEGF, FGF basic, HGF, IL6) is an Enzyme Immunoassay kit for the quantification of Human Angiogenic Marker (VEGF, FGF basic, HGF, IL6) in Human serum, plasma and cell culture supernatants. See all Multiplex ELISA kits
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	Angiogenic
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	VEGF: 31.25 pg/ml FGF basic: 15.625 pg/ml HGF: 125 pg/ml IL-6: 15.625 pg/ml
Sample Type	Serum, plasma and cell culture supernatants.
Standard Range	VEGF: 62.5 - 2000 pg/ml FGF basic: 31.25 - 1000 pg/ml HGF: 250 - 8000 pg/ml IL6: 31.25 - 1000 pg/ml
Sample Volume	50 µl

Application Instructions

Assay Time	4.5 hours
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Properties

Form	96 well
Storage instruction	Store components at 4°C or -20°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	VEGFA; FGF2; HGF; IL6
Gene Full Name	Vascular Endothelial Growth Factor A; Fibroblast Growth Factor 2; Hepatocyte Growth Factor; Interleukin 6

Background

VEGF: Growth factor active in angiogenesis, vasculogenesis and endothelial cell growth. Induces endothelial cell proliferation, promotes cell migration, inhibits apoptosis and induces permeabilization of blood vessels. Binds to the FLT1/VEGFR1 and KDR/VEGFR2 receptors, heparan sulfate and heparin. NRP1/Neuropilin-1 binds isoforms VEGF-165 and VEGF-145. Isoform VEGF165B binds to KDR but does not activate downstream signaling pathways, does not activate angiogenesis and inhibits tumor growth. Binding to NRP1 receptor initiates a signaling pathway needed for motor neuron axon guidance and cell body migration, including for the caudal migration of facial motor neurons from rhombomere 4 to rhombomere 6 during embryonic development (By similarity). [UniProt]

FGF basic: Acts as a ligand for FGFR1, FGFR2, FGFR3 and FGFR4 (PubMed:8663044). Also acts as an integrin ligand which is required for FGF2 signaling (PubMed:28302677). Binds to integrin ITGAV:ITGB3 (PubMed:28302677). Plays an important role in the regulation of cell survival, cell division, cell differentiation and cell migration (PubMed:8663044, PubMed:28302677). Functions as a potent mitogen in vitro (PubMed:3732516, PubMed:3964259). Can induce angiogenesis (PubMed:23469107, PubMed:28302677). [UniProt]

HGF: Potent mitogen for mature parenchymal hepatocyte cells, seems to be a hepatotrophic factor, and acts as a growth factor for a broad spectrum of tissues and cell types. Activating ligand for the receptor tyrosine kinase MET by binding to it and promoting its dimerization. [UniProt]

IL6: Cytokine with a wide variety of biological functions. It is a potent inducer of the acute phase response. Plays an essential role in the final differentiation of B-cells into Ig-secreting cells Involved in lymphocyte and monocyte differentiation. Acts on B-cells, T-cells, hepatocytes, hematopoietic progenitor cells and cells of the CNS. Required for the generation of T(H)17 cells. Also acts as a myokine. It is discharged into the bloodstream after muscle contraction and acts to increase the breakdown of fats and to improve insulin resistance. It induces myeloma and plasmacytoma growth and induces nerve cells differentiation. [UniProt]

Function

VEGF:Growth factor active in angiogenesis, vasculogenesis and endothelial cell growth. Induces endothelial cell proliferation, promotes cell migration, inhibits apoptosis and induces permeabilization of blood vessels. Binds to the FLT1/VEGFR1 and KDR/VEGFR2 receptors, heparan sulfate and heparin. Binds to the NRP1/neuropilin-1 receptor. Binding to NRP1 initiates a signaling pathway needed for motor neuron axon guidance and cell body migration, including for the caudal migration of facial motor neurons from rhombomere 4 to rhombomere 6 during embryonic development (By similarity). [UniProt]

FGF basic:Plays an important role in the regulation of cell survival, cell division, cell differentiation and cell migration. [UniProt]

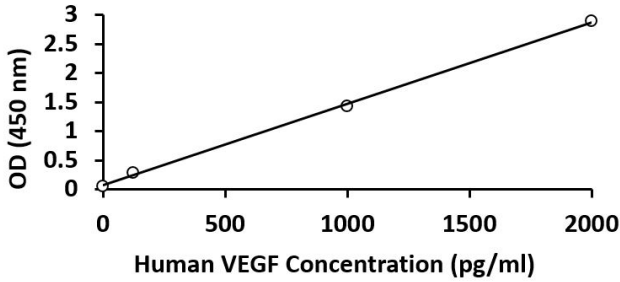
HGF:Potent mitogen for mature parenchymal hepatocyte cells, seems to be a hepatotrophic factor, and acts as a growth factor for a broad spectrum of tissues and cell types. [UniProt]

IL6:Through activation of IL6ST-YAP-NOTCH pathway, induces inflammation-induced epithelial regeneration (By similarity). [UniProt]

Highlight

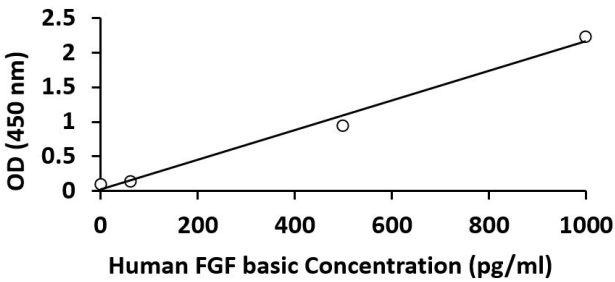
	1	2	3	4	5	6	7	8	9	10	11	12
A	VEGF	VEGF	VEGF	VEGF	VEGF	VEGF	VEGF	VEGF	VEGF	VEGF	VEGF	VEGF
B	bFGF	bFGF	bFGF	bFGF	bFGF	bFGF	bFGF	bFGF	bFGF	bFGF	bFGF	bFGF
C	HGF	HGF	HGF	HGF	HGF	HGF	HGF	HGF	HGF	HGF	HGF	HGF
D	IL-6	IL-6	IL-6	IL-6	IL-6	IL-6	IL-6	IL-6	IL-6	IL-6	IL-6	IL-6
E	VEGF	VEGF	VEGF	VEGF	VEGF	VEGF	VEGF	VEGF	VEGF	VEGF	VEGF	VEGF
F	bFGF	bFGF	bFGF	bFGF	bFGF	bFGF	bFGF	bFGF	bFGF	bFGF	bFGF	bFGF
G	HGF	HGF	HGF	HGF	HGF	HGF	HGF	HGF	HGF	HGF	HGF	HGF
H	IL-6	IL-6	IL-6	IL-6	IL-6	IL-6	IL-6	IL-6	IL-6	IL-6	IL-6	IL-6

Antibodies Coating Pattern In Microtiter Plate of ARG83510 arigoPLEX®Human Angiogenic Marker Multiplex ELISA kit (VEGF, FGF basic, HGF, IL6)



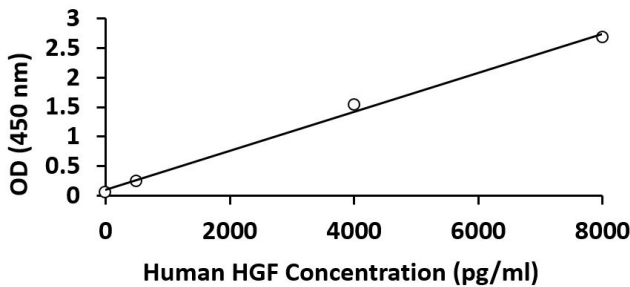
ARG83510 arigoPLEX®Human Angiogenic Marker Multiplex ELISA kit standard curve image

ARG83510 arigoPLEX®Human Angiogenic Marker Multiplex ELISA kit results of a typical standard for Human VEGF run with optical density reading at 450 nm.



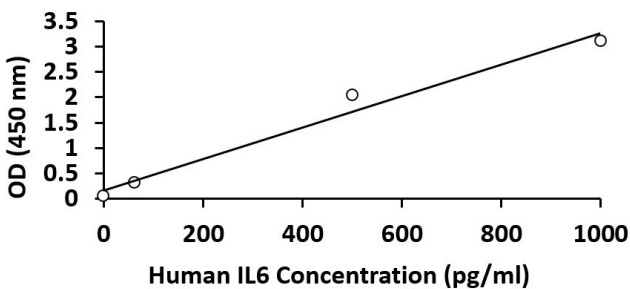
ARG83510 arigoPLEX®Human Angiogenic Marker Multiplex ELISA kit standard curve image

ARG83510 arigoPLEX®Human Angiogenic Marker Multiplex ELISA kit results of a typical standard for Human FGF basic run with optical density reading at 450 nm.



ARG83510 arigoPLEX®Human Angiogenic Marker Multiplex ELISA kit standard curve image

ARG83510 arigoPLEX®Human Angiogenic Marker Multiplex ELISA kit results of a typical standard for Human HGF run with optical density reading at 450 nm.



ARG83510 arigoPLEX®Human Angiogenic Marker Multiplex ELISA kit standard curve image

ARG83510 arigoPLEX®Human Angiogenic Marker Multiplex ELISA kit results of a typical standard for Human IL6 run with optical density reading at 450 nm.