miRNA Screening Panel (Platelet, 384 well format)

Catalog # KA6514 Size 1 Kit

Applications

miRNA ID	platelet enchrichment	platelet function	other cardiovascular functions
hsa-miR-126- 3p	***	platelet activation	
hsa-miR-223- 3p	***	aggregation and granule secretion	
hsa-miR-197- 3p	***	platelet activation	
hsa-miR-191- 5p	***	platelet activation	
hsa-miR-24-3p	++	platelet activation	monocyte differentation
hsa-miR-21-5p	++	platelet biogenesis	inhibits cell growth in VSMCs
hsa-miR-28-3p	++	megakaryocyte differentiation [
hsa-miR-320a	++		insulin signaling, angiogenesis, progression of retinopathy
hsa-miR-150- 5p	+	platelet activation, megakaryocytopoiesis †	insulin signaling, angiogenesis, progression of retinopathy
hsa-miR-27b- 3p	+	megakaryocyte differentiation	angiogensesis, vascular disease and vascular aging, progression of retinopathy
hsa-miR-122- 5p	•		fatty acid and cholesterol synthesis in hepatocytes
miRNA ID	platelet enchrichment	main cellular origin in plasma	validated pathways/targets VEGF signaling: SPRED1 and
hsa-miR-126-3p	***	platelets, megakaryocytes & endothelial cells	VEGF signaling: SPRED1 and PIK3R2/p85-B1 Vascular inflammatory pathways: VCAM 1
hsa-miR-223-3p	***	platelets & megakaryocytes	P2Y12 receptor ↓ RPS6KB1/HIF-1a signaling pathway
hsa-miR-197-3p	•••	platelets, megakaryocytes & endothelial cells	
hsa-miR-191-5p	+++	platelets & endothelial cells	
hsa-miR-24-3p	++	platelets & endothelial cells, monocytes	PDGF-BB signaling: GATA2, PAK4 L: Vascularity, cardiac function, and infarct size after myocardial infarction
hsa-miR-21-5p	**	vascular smooth muscle cells, endothelial cells, cardiac fibroblasts, and cardiomyocytes, platelets	PTEN, BMPR2, WWP1, WASp
hsa-miR-28-3p	++	platelets & hematopoietic cells	
hsa-miR-320a	++	platelets & endothelial cells	Survivin, VEGF
hsa-miR-150-5p	+	leukocytes, megakaryocytes & monocytes	c-Myb, VEGF-a, HIF-1a
hsa-miR-27b-3p	+	platelets & vasculature+E11F2D11:E 11D11:C10:E11	
			multiple genes required for hepatocyte

Screening

Summary of evidence for miRNA platelet biomarkers included in the kit.

Cycler

Cycler

PCR cycler compatibility

Specification

Product Description

miRNA Screening Panel enables the simple and standardized analysis of specific circulating microR NAs in human serum and plasma, which reflects platelet function.

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🍟 Abnova	Abnova Product Information		
Supplied Product	Kit content:		
	A. Serum/Plasma RNA extraction		
	1. Lysis Buffer		
	2. Protein Precipitation Buffer		
	3. Wash Buffer 1		
	4. Wash Buffer 2		
	5. Rnase-free water		
	6. Spin columns		
	7. Collection tube 1.5 mL		
	8. Collection tube 2 mL		
	B. cDNA synthesis		
	1. RNA spike-in Mix		
	2. cDNA spike-in Mix		
	2. 5x RT Buffer		
	3. 10x RT Enzyme Mix		
	4. RNase-free water 5. 2x miGreen Mix		
	6. Glycogen (5mg/mL)		
	0. Glycogen (Shighile)		
	C. qPCR		
	1. Primer coated 384 well qPCR plates		
Pack Size	48 samples		
Suitable Sample	Serum, Plasma		
Sample Size	200 µL		
Reactivity	Human		
Regulation Status	For research use only (RUO)		
Quality Control Testing	Screening		
Storage Instruction	Store the kit at -20°C.		
Note	Cycler		
	Cycler		

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