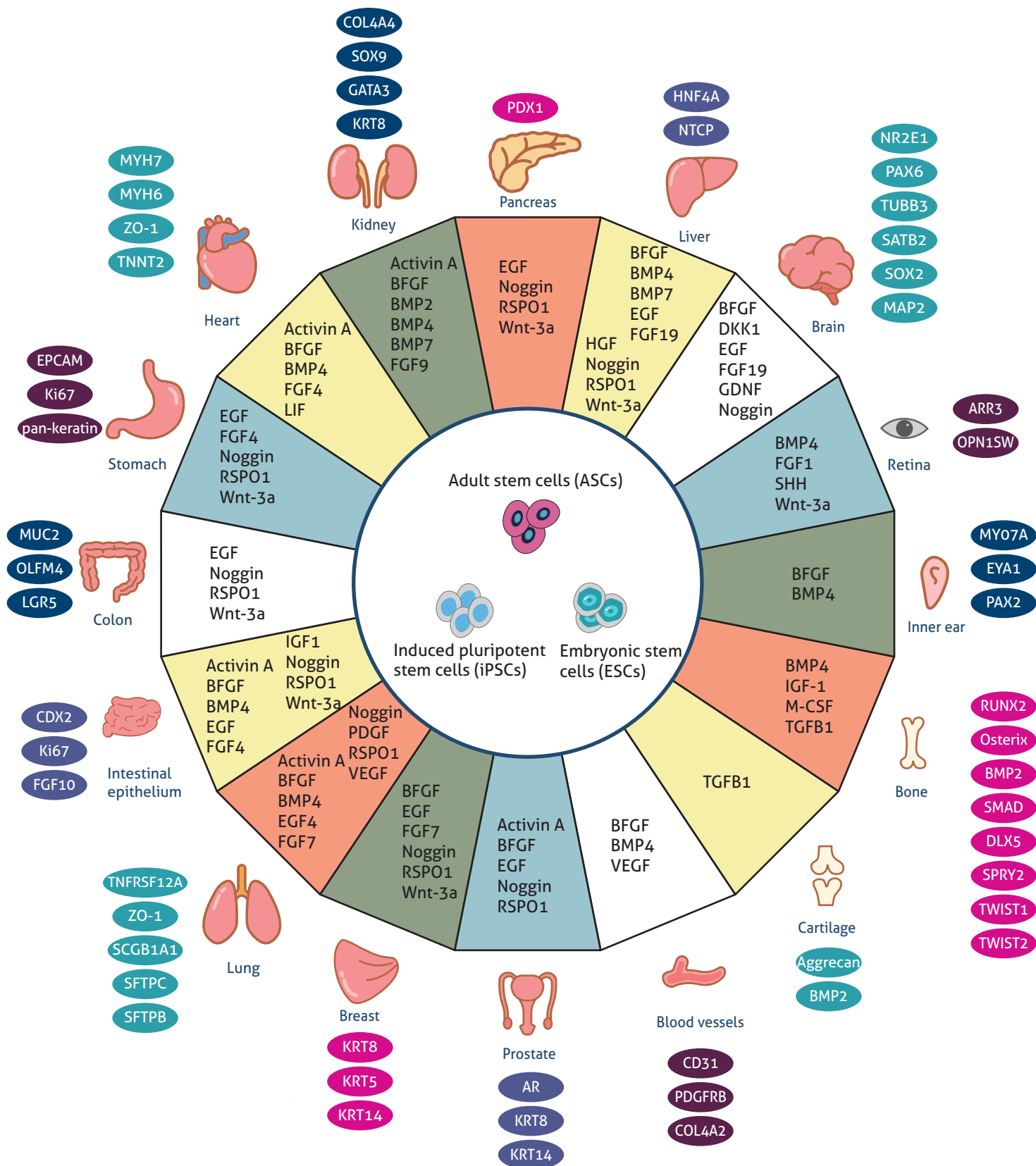


Differentiation of Stem Cells to Organoids

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Differentiation of Stem Cells to Organoids

Humankine Active Cytokines and Growth Factors

Organoid	Protein	CatalogNo	Activity	Purity	Source
Stomach Organoid	EGF	HZ-1326	0.1-0.6 ng/mL	>95%	HEK293
	FGF4	HZ-1218	≤ 1.25 ng/mL or 6-30 ng/mL	>95%	HEK293
	Noggin	HZ-1118	1.5-15 ng/mL	>95%	HEK293
	RSPO1	HZ-1328	4-20 ng/mL	>95%	HEK293
	Wnt-3a	HZ-1296	2-17 ng/mL or 25-125 ng/mL	>90%	HEK293
Intestinal epithelium Organoid	Activin A	HZ-1138	0.5-3.5 ng/mL	>95%	HEK293
	BFGF	HZ-1285	0.05-0.4 ng/mL	>95%	HEK293
	BMP4	HZ-1045	1.5-9 ng/mL	>95%	HEK293
	EGF	HZ-1326	0.1-0.6 ng/mL	>95%	HEK293
	FGF4	HZ-1218	≤ 1.25 ng/mL or 6-30 ng/mL	>95%	HEK293
	IGF1	HZ-1322	2-14 ng/mL	>95%	HEK293
	Noggin	HZ-1118	1.5-15 ng/mL	>95%	HEK293
	RSPO1	HZ-1328	4-20 ng/mL	>95%	HEK293
	Wnt-3a	HZ-1296	2-17 ng/mL or 5-125 ng/mL	>90%	HEK293
Colon Organoid	EGF	HZ-1326	0.1-0.6 ng/mL	>95%	HEK293
	Noggin	HZ-1118	1.5-15 ng/mL	>95%	HEK293
	RSPO1	HZ-1328	4-20 ng/mL	>95%	HEK293
	Wnt-3a	HZ-1296	2-17 ng/mL or 25-125 ng/mL	>90%	HEK293
Liver Organoid	BFGF	HZ-1285	0.05-0.4 ng/mL	>95%	HEK293
	BMP4	HZ-1045	1.5-9 ng/mL	>95%	HEK293
	BMP7	HZ-1229	<100 ng/mL	>95%	HEK293
	EGF	HZ-1326	0.1-0.6 ng/mL	>95%	HEK293
	FGF19	HZ-1330	50-300 ng/mL	>95%	HEK293
	HGF	HZ-1084	5-25 ng/mL	>95%	HEK293
	Noggin	HZ-1118	1.5-15 ng/mL	>95%	HEK293
	RSPO1	HZ-1328	4-20 ng/mL	>95%	HEK293
	Wnt-3a	HZ-1296	2-17 ng/mL or 25-125 ng/mL	>90%	HEK293
Lung Organoid	Activin A	HZ-1138	0.5-3.5 ng/mL	>95%	HEK293
	BFGF	HZ-1285	0.05-0.4 ng/mL	>95%	HEK293
	BMP4	HZ-1045	1.5-9 ng/mL	>95%	HEK293
	FGF4	HZ-1218	≤ 1.25 ng/mL or 6-30 ng/mL	>95%	HEK293
	FGF7	HZ-1100	4-20 ng/mL	>95%	HEK293
	Noggin	HZ-1118	1.5-15 ng/mL	>95%	HEK293
	PDGF	HZ-1308	0.3-3 ng/mL	>95%	HEK293
	RSPO1	HZ-1328	4-20 ng/mL	>95%	HEK293
	VEGF	HZ-1038	0.3-3.75 ng/mL	>95%	HEK293
Prostate Organoid	Activin A	HZ-1138	0.5-3.5 ng/mL	>95%	HEK293
	BFGF	HZ-1285	0.05-0.4 ng/mL	>95%	HEK293
	EGF	HZ-1326	0.1-0.6 ng/mL	>95%	HEK293
	Noggin	HZ-1118	1.5-15 ng/mL	>95%	HEK293
	RSPO1	HZ-1328	4-20 ng/mL	>95%	HEK293
Pancreas Organoid	EGF	HZ-1326	0.1-0.6 ng/mL	>95%	HEK293
	Noggin	HZ-1118	1.5-15 ng/mL	>95%	HEK293
	RSPO1	HZ-1328	4-20 ng/mL	>95%	HEK293
	Wnt-3a	HZ-1296	2-17 ng/mL or 25-125 ng/mL	>90%	HEK293

Organoid	Protein	CatalogNo	Activity	Purity	Source
Brain Organoid	BFGF	HZ-1285	0.05-0.4 ng/mL	>95%	HEK293
	DKK1	HZ-1314	7-70 ng/mL	>95%	HEK293
	EGF	HZ-1326	0.1-0.6 ng/mL	>95%	HEK293
	FGF19	HZ-1330	50-300 ng/mL	>95%	HEK293
	GDNF	HZ-1311	Typically ≤ 10 ng/mL	>95%	HEK293
	Noggin	HZ-1118	1.5-15 ng/mL	>95%	HEK293
Inner ear Organoid	BFGF	HZ-1285	0.05-0.4 ng/mL	>95%	HEK293
	BMP4	HZ-1045	1.5-9 ng/mL	>95%	HEK293
Retina Organoid	BMP4	HZ-1045	1.5-9 ng/mL	>95%	HEK293
	FGF1	HZ-1327	0.5-2.5 ng/mL	>95%	HEK293
	SHH	HZ-1306	Typically ≤ 350 ng/mL	>90%	HEK293
	Wnt-3a	HZ-1296	2-17 ng/mL or 25-125 ng/mL	>90%	HEK293
Breast Organoid	BFGF	HZ-1285	0.05-0.4 ng/mL	>95%	HEK293
	EGF	HZ-1326	0.1-0.6 ng/mL	>95%	HEK293
	FGF7	HZ-1100	4-20 ng/mL	>95%	HEK293
	Noggin	HZ-1118	1.5-15 ng/mL	>95%	HEK293
	RSPO1	HZ-1328	4-20 ng/mL	>95%	HEK293
	Wnt-3a	HZ-1296	2-17 ng/mL or 25-125 ng/mL	>90%	HEK293
Kidney Organoid	Activin A	HZ-1138	0.5-3.5 ng/mL	>95%	HEK293
	BFGF	HZ-1285	0.05-0.4 ng/mL	>95%	HEK293
	BMP2	HZ-1128	7.5-37.5 ng/mL	>95%	HEK293
	BMP4	HZ-1045	1.5-9 ng/mL	>95%	HEK293
	BMP7	HZ-1229	Typically <100 ng/mL	>95%	HEK293
	FGF9	HZ-1329	2-11 ng/mL	>95%	HEK293
Heart Organoid	Activin A	HZ-1138	0.5-3.5 ng/mL	>95%	HEK293
	BFGF	HZ-1285	0.05-0.4 ng/mL	>95%	HEK293
	BMP4	HZ-1045	1.5-9 ng/mL	>95%	HEK293
	FGF4	HZ-1218	≤ 1.25 ng/mL or 6-30 ng/mL	>95%	HEK293
Blood vessels Organoid	LIF	HZ-1292	Typically ≤ 1 ng/mL or 0.045-0.25 ng/mL	>95%	HEK293
	BFGF	HZ-1285	0.05-0.4 ng/mL	>95%	HEK293
	BMP4	HZ-1045	1.5-9 ng/mL	>95%	HEK293
Cartilage Organoid	VEGF	HZ-1038	0.3-3.75 ng/mL	>95%	HEK293
	TGFB1	HZ-1011	Typically ≤ 0.5 ng/mL	>95%	HEK293
Bone Organoid	BMP4	HZ-1045	1.5-9 ng/mL	>95%	HEK293
	IGF-1	HZ-1322	2-14 ng/mL	>95%	HEK293
	M-CSF	HZ-1192	0.7-4.0 ng/mL	>95%	HEK293
	TGFB1	HZ-1011	Typically ≤ 0.5 ng/mL	>95%	HEK293

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Differentiation of Stem Cells to Organoids

Primary Antibodies of Organoids

Organoid	Antibody targets	CatalogNo	Host	Application	Reactivity
Stomach Organoid	EPCAM	21050-1-AP	Rabbit	FC, IF, IHC, WB, ELISA	Human, Mouse
	Ki67	27309-1-AP	Rabbit	FC, IF, IHC, ELISA	Human
	pan-keratin	26411-1-AP	Rabbit	FC, IF, IHC, WB, ELISA	Human
Intestinal epithelium Organoid	CDX2	60243-1-Ig	Mouse	IF, WB, ELISA	Human, Pig
	Ki67	27309-1-AP	Rabbit	FC, IF, IHC, ELISA	Human
	FGF10	29749-1-AP	Rabbit	WB, ELISA	Human, Mouse
Colon Organoid	Muc2	27675-1-AP	Rabbit	IHC, ELISA	Human, Mouse
	Olfm4	28432-1-AP	Rabbit	IHC, ELISA	Human
Lung Organoid	SFTPB	13664-1-AP	Rabbit	IHC, IP, WB, ELISA	Human
	SFTPC	10774-1-AP	Rabbit	IF, IHC, WB, ELISA	Human, Mouse, Rat
	SCGB1A1	10490-1-AP	Rabbit	FC (Intra), IF, IHC, ELISA	Human, Mouse
	ZO-1	21773-1-AP	Rabbit	FC, IF, IP, WB, ELISA	Human, Canine, Mouse, Rat, Hamster
Prostate Organoid	AR	22089-1-AP	Rabbit	IF, IHC, WB, ELISA	Human, Mouse, Rat
	KRT8	17514-1-AP	Rabbit	FC, IHC, WB, ELISA	Human, Mouse, Rat
	KRT14	10143-1-AP	Rabbit	FC, IF, IHC, IP, WB, ELISA	Human, Mouse, Rat
Pancreas Organoid	PDX1	20989-1-AP	Rabbit	IF, WB, ELISA	Human, Mouse
Brain Organoid	MAP2	17490-1-AP	Rabbit	FC, IF, IHC, IP, WB, ELISA	Human, Mouse, Rat
	SOX2	11064-1-AP	Rabbit	IF, IHC, WB, ELISA	Human, Mouse, Rat, Zebrafish
	SATB2	67958-1-Ig	Mouse	WB, ELISA	Human, Mouse
	TUBB3	66375-1-Ig	Mouse	FC, IHC, WB, ELISA	Human, Mouse, Rat, Rabbit, Chicken, Pig
	PAX6	12323-1-AP	Rabbit	FC, IF, IHC, WB, ELISA	Human, Mouse, Rat
Inner ear Organoid	MYO7A	20720-1-AP	Rabbit	IF, WB, ELISA	Human, Mouse, Rat
	EYA1	22658-1-AP	Rabbit	IF, IHC, IP, WB, ELISA	Human
	PAX2	29307-1-AP	Rabbit	WB, ELISA	Human, Mouse, Rat
Retina Organoid	ARR3	11100-2-AP	Rabbit	IHC, WB, ELISA	Human, Mouse
Breast Organoid	KRT8	17514-1-AP	Rabbit	FC, IHC, WB, ELISA	Human, Mouse, Rat
	KRT5	66727-1-Ig	Mouse	FC, IF, IHC, WB, ELISA	Human, Mouse, Pig
	KRT14	10143-1-AP	Rabbit	FC, IF, IHC, IP, WB, ELISA	Human, Mouse, Rat
Kidney Organoid	KRT8	17514-1-AP	Rabbit	FC, IHC, WB, ELISA	Human, Mouse, Rat
	GATA3	10417-1-AP	Rabbit	IHC, WB, ELISA	Human
	SOX9	67439-1-Ig	Mouse	WB, ELISA	Human, Mouse
	COL4A4	19674-1-AP	Rabbit	IF, ELISA	Human
Heart Organoid	TNNT2	15513-1-AP	Rabbit	IF, IHC, WB, ELISA	Human, Mouse, Rat
	ZO-1	21773-1-AP	Rabbit	FC, IF, IP, WB, ELISA	Human, Canine, Mouse, Rat, Hamster
	MYH6	22281-1-AP	Rabbit	IF, IHC, WB, ELISA	Human, Mouse, Rat
	MYH7	22280-1-AP	Rabbit	IF, IHC, IP, WB, ELISA	Human, Mouse
Blood vessels Organoid	CD31	11265-1-AP	Rabbit	FC, IF, IHC, IP, WB, ELISA	Human
	PDGFRB	13449-1-AP	Rabbit	FC, IHC, WB, ELISA	Human, Mouse, Rat
	COL4A2	55131-1-AP	Rabbit	IHC, ELISA	Human
Cartilage Organoid	Aggrecan	13880-1-AP	Rabbit	IHC, ELISA	Human, Mouse, Rat
	BMP2	66383-1-Ig	Mouse	IHC, WB, ELISA	Human, Pig
Bone Organoid	RUNX2	20700-1-AP	Rabbit	IF, WB, ELISA	Human, Mouse, Rat
	BMP2	66383-1-Ig	Mouse	IHC, WB, ELISA	Human, Pig
	SMAD1	10429-1-AP	Rabbit	IF, IP, WB, ELISA	Human, Mouse
	DLX5	10592-1-AP	Rabbit	IHC, WB, ELISA	Human, Mouse, Rat
	SPRY2	11383-1-AP	Rabbit	IF, IHC, WB, ELISA	Human, Mouse, Rat
	TWIST1	25465-1-AP	Rabbit	IF, IHC, IP, WB, ELISA	Human
	TWIST2	11752-1-AP	Rabbit	WB, ELISA	Human, Mouse

*Conjugated and unconjugated versions of antibodies available at ptglab.com