



Fitzgerald

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Stem Cells

Stem Cells

Stem cell markers and stem cell differentiation and development encompass hundreds of different targets which are intricately involved in multiple different signaling cascades. For example, in humans, the primary signaling pathways responsible for maintaining pluripotency and self renewal in embryonic stem cells (ESCs) are the FGF signaling pathway, which induces the MAPK and Akt pathways and the BMP/TGF beta signaling pathway, which signals through SMAD proteins. The Wnt signaling pathway also promotes pluripotency, through the expression and activation of three key transcription factors; Oct4, SOX2, and Nanog. Other markers used to identify ESCs include the cell surface glycolipid SSEA3/4 and glycoproteins TRA-1-60 and TRA-1-81. At Fitzgerald Industries, we list hundreds of antibodies, proteins and ELISA kits targeting these pathways, of which a selection are listed below, and all others can be found on our website at www.fitzgerald-fii.com

beta Catenin

ANTIBODIES

Catalog No.	Product Name	Host/Clone	Applications
10R-6515	beta Catenin antibody	Mouse/15B8	FC, IHC, IP
20R-1973	beta Catenin antibody	Rabbit	WB
20R-2060	beta Catenin antibody	Rabbit	IF, IHC, WB
20R-2061	beta Catenin antibody	Rabbit	IHC, WB
20R-2184	beta catenin antibody	Rabbit	WB
20R-2283	beta Catenin antibody	Rabbit	WB
20R-2374	beta Catenin antibody	Rabbit	IF, IHC, WB
20R-2375	beta Catenin antibody	Rabbit	IF, IHC, WB
20R-2670	beta Catenin antibody	Rabbit	WB
20R-2694	beta Catenin antibody	Rabbit	WB
70R-31690	beta Catenin antibody	Rabbit	WB, IHC, ELISA
70R-34972	beta Catenin antibody	Rabbit	WB, ELISA
70R-35265	beta Catenin antibody	Rabbit	WB, IHC, ELISA
20R-2951	beta Catenin antibody (C-term)	Rabbit	WB, IP
20R-2946	beta Catenin antibody (N-term)	Rabbit	WB, IP

Sonic Hedgehog/SHH

ANTIBODIES

Catalog No.	Product Name	Host/Clone	Applications
10R-1945	SHH antibody	Mouse/8G3	ELISA, WB
10R-5767	SHH antibody	Mouse/3A2	IF, WB
10R-5768	SHH antibody	Mouse/10H6	IF, WB
70R-13756	SHH antibody	Rabbit	WB, IHC-P
70R-20258	SHH antibody	Rabbit	ELISA, IF, WB
70R-7123	Sonic Hedgehog antibody	Rabbit	WB, IHC

PROTEINS

Catalog No.	Product Name	Species	Type
80R-1302	SHH protein (His tag)	Human	Recombinant
80R-1339	SHH protein (His tag)	Human	Recombinant
30R-AS052	Sonic Hedgehog protein	Human	Recombinant
30R-AS053A	Sonic Hedgehog protein	Human	Recombinant
30R-2426	Sonic Hedgehog protein	Human	Recombinant
30R-2432	Sonic Hedgehog protein	Mouse	Recombinant

Nanog

ANTIBODIES

Catalog No.	Product Name	Host/Clone	Applications
10R-11110	Nanog antibody	Mouse/M72891	ELISA, FC, IF, WB
10R-1098	Nanog antibody	Mouse/5A10	ELISA, IHC, WB
10R-2069	Nanog antibody	Mouse/1E6C4	ELISA, IF, WB
10R-6536	Nanog antibody	Mouse/hNanog.2	FC, IHC, Functional Assay, IP
70R-NR019	Nanog antibody	Rabbit	WB
70R-NR014	Nanog antibody	Rabbit	ELISA, Inhibition, WB
70R-3067	Nanog antibody	Rabbit	WB
20R-2498	Nanog antibody	Rabbit	WB
70R-11664	Nanog antibody	Rabbit	ELISA, WB
70R-18745	Nanog antibody	Rabbit	ELISA, IF, WB
70R-35125	NanogP8 antibody	Rabbit	WB, ELISA

PROTEINS

Catalog No.	Product Name	Species	Type
30R-AN042	Nanog protein	Human	Recombinant
30R-2077	Nanog protein	Human	Recombinant
80R-1882	Nanog protein (His tag)	Human	Recombinant
80R-2913	NanogP8 protein (His tag)	Human	Recombinant

EGF and EGFR

ANTIBODIES

Catalog No.	Product Name	Host/Clone	Applications
10-E39A	EGF antibody	Mouse/M01102818	
10R-E132A	EGF antibody	Rat/M912294	ELISA, Inhibition, WB
10R-2038	EGF antibody	Mouse/9D7F11	ELISA, IHC, WB
10R-2176	EGF antibody	Mouse/4E11	ELISA, IF
10R-2969	EGF antibody	Mouse/KT2	ELISA, WB
10R-2985	EGF antibody	Mouse/KT57	ELISA, WB
10R-7766	EGF antibody	Mouse/NYRhEGF	ELISA, IP, IHC, WB
10R-11129	EGF antibody	Mouse/M72910	WB, IHC, ELISA
70R-12248	EGF antibody	Rabbit	Neutralization, WB
70R-12249	EGF antibody	Rabbit	WB
70R-EG001	EGF antibody	Goat	ELISA, Inhibition, WB
70R-ER012	EGF antibody	Rabbit	ELISA, Inhibition, WB
70-ER40	EGF antibody	Rabbit	ELISA, Inhibition, WB
20C-CR1085GP	EGF antibody	Goat	WB
70R-5697	EGF antibody	Rabbit	WB
60R-ER002bt	EGF antibody (biotin)	Rabbit	ELISA, WB
60R-1719	EGF antibody (biotin)	Rabbit	WB, ELISA
60R-1718	EGF antibody (FITC)	Rabbit	WB, ELISA
61R-1022	EGF antibody (HRP)	Mouse/KT2	ELISA
60R-1717	EGF antibody (HRP)	Rabbit	WB, ELISA
10R-1765	EGFR antibody	Mouse/AT6E3	ELISA, WB
610C-CR2143M1	EGFR antibody	Mouse/813182	
10R-E101a	EGFR antibody	Mouse/LA1	ICC, IHC, IP, WB
20-ES04	EGFR antibody	Sheep	IC, IHC-P, IP, WB
20R-ER022	EGFR antibody	Rabbit	IHC-P
20R-ER023	EGFR antibody	Rabbit	IHC-P
20R-ER004	EGFR antibody	Rabbit	ELISA, IP, WB
70R-35670	EGFR antibody	Rabbit	ELISA, IHC, IF, WB
70R-34097	EGFR antibody	Rabbit	WB, IHC, ELISA
70R-34099	EGFR antibody	Rabbit	WB, ELISA
70R-34101	EGFR antibody	Rabbit	WB, IHC
1R-E109BAF	EGFR antibody (Alexa Fluor 488)	Mouse/M9020201	IF
20R-2927	EGFR antibody (Phospho-Thr1197/Tyr1248)	Rabbit	WB
70R-32597	EGFR antibody (Ser1026)	Rabbit	WB, IHC, ELISA
70R-34090	EGFR antibody (Ser1070)	Rabbit	WB, IHC, ELISA
70R-32598	EGFR antibody (Ser1071)	Rabbit	WB, ELISA
70R-32596	EGFR antibody (Ser695)	Rabbit	WB, ELISA
70R-30568	EGFR antibody (Thr678)	Rabbit	WB, IF, ELISA
70R-30570	EGFR antibody (Thr693)	Rabbit	WB, IHC, IF, ELISA
70R-36530	EGFR antibody (Tyr1016)	Rabbit	ELISA, IHC, IF, WB
70R-33568	EGFR antibody (Tyr1069)	Rabbit	WB, ELISA
70R-34092	EGFR antibody (Tyr1092)	Rabbit	WB, IHC, ELISA
70R-34094	EGFR antibody (Tyr1110)	Rabbit	WB, ELISA
70R-34096	EGFR antibody (Tyr1172)	Rabbit	WB, ELISA
70R-34098	EGFR antibody (Tyr1197)	Rabbit	WB, IHC
70R-34100	EGFR antibody (Tyr869)	Rabbit	WB, ELISA

EGF and EGFR

PROTEINS

Catalog No.	Product Name	Species	Type
30R-AE004	EGF protein	Human	Recombinant
30R-AE025	EGF protein	Human	Recombinant
30R-AE003	EGF protein	Human	Recombinant
30R-1056	EGF protein	Human	Recombinant
30R-2088	EGF protein	Human	Recombinant
30R-2098	EGF protein	Human	Recombinant
30R-2103	EGF protein	Human	Recombinant
30R-2331	EGF protein	Human	Recombinant
30R-2332	EGF protein	Mouse	Recombinant
30R-2333	EGF protein	Rat	Recombinant
80R-2272	EGF protein (His tag)	Mouse	Recombinant
30R-AE001	EGF protein	Mouse	Recombinant
30R-2233	EGF protein	Mouse	Recombinant
30R-AE012	EGFR protein	Human	Recombinant
30R-3147	EGFR protein	Human	Recombinant

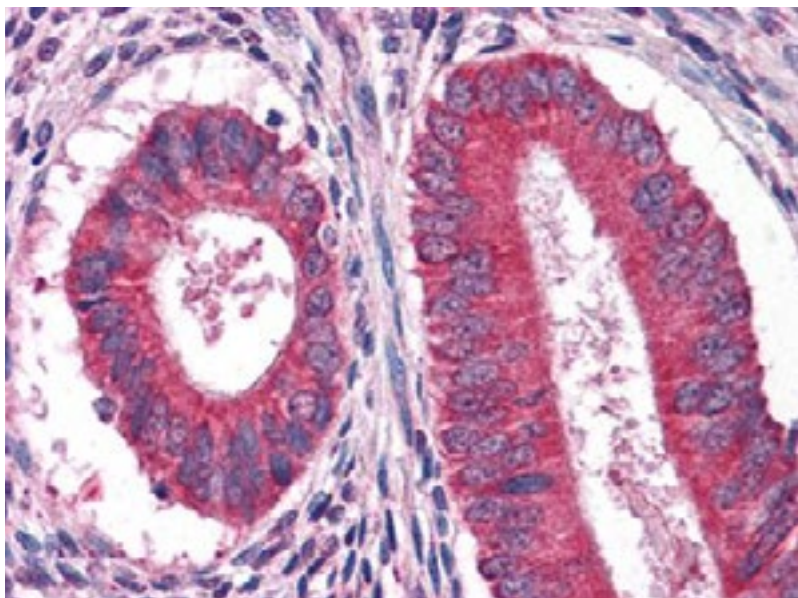


Fig 1: Immunohistochemical analysis of paraffin-embedded human Uterus tissues using EGF antibody (10R-11129)

FGF

ANTIBODIES

Catalog No.	Product Name	Host/Clone	Applications
70R-FR007	FGF acidic antibody	Rabbit	ELISA, Inhibition, WB
70-FR34	FGF acidic antibody	Rabbit	User optimized
10R-F124A	FGF basic antibody	Mouse/M912268	ELISA, Inhibition, WB
10R-2977	FGF basic antibody	Mouse/KT1	ELISA, WB
10R-2978	FGF basic antibody	Mouse/KT49	ELISA
10R-7640	FGF beta antibody	Mouse/M120621FB	ELISA, WB
70R-FR002	FGF basic antibody	Rabbit	ELISA, Inhibition, WB
70-FR35	FGF basic antibody	Rabbit	ELISA, Inhibition, WB
60R-FR001bt	FGF basic antibody (biotin)	Rabbit	ELISA, WB

PROTEINS

Catalog No.	Product Name	Species	Type
30R-AF012	FGF acidic protein	Human	Recombinant
30R-AF043	FGF acidic protein	Human	Recombinant
30R-AF014	FGF basic protein	Human	Recombinant
30R-AF045	FGF basic protein	Human	Recombinant
30R-AF044	FGF basic protein	Human	Recombinant
30R-AF015	FGF basic protein	Human	Recombinant
30R-2336	FGF basic 147 protein	Human	Recombinant

Notch

ANTIBODIES

Catalog No.	Product Name	Host/Clone	Applications
10R-5026	Notch 1 antibody	Mouse/4C9	IHC, WB
10R-5027	Notch 1 antibody	Mouse/3 E12	IF, IHC, WB, RPPA
10R-6539	Notch 1 antibody	Mouse/mN1A	FC
70R-12158	Notch 1 antibody	Rabbit	WB
70R-31090	Notch 1 antibody	Rabbit	WB, IHC, ELISA
70R-18927	Notch 1 antibody	Rabbit	ELISA, IHC, WB
61R-1594	Notch 1 antibody (biotin)	Mouse/mN1A	FC
61R-1347	Notch 1 antibody (PE)	Mouse/mN1A	FC
70R-NR026	Notch 1 homolog antibody	Rabbit	WB
70R-31091	Notch 2 antibody	Rabbit	WB, IHC, ELISA
70R-30786	Notch 2 antibody	Rabbit	WB, ELISA
70R-30788	Notch 2 antibody	Rabbit	WB, ELISA
70R-NR027	Notch 2 homolog antibody	Rabbit	WB
70R-18928	Notch 3 antibody	Rabbit	ELISA, WB
61R-1343	Notch 3 antibody (PE)	Hamster/HMN3-133	FC
70R-NR028	Notch 3 homolog antibody	Rabbit	WB
70R-30798	Notch 4 antibody	Rabbit	WB, ELISA
61R-1344	Notch 4 antibody (PE)	Hamster/HMN4-14	FC
70R-NR029	Notch 4 homolog antibody	Rabbit	WB

Sox2

ANTIBODIES

Catalog No.	Product Name	Host/Clone	Applications
10R-10946	SOX2 antibody	Mouse/M72727	ELISA, WB
10R-11127	SOX2 antibody	Mouse/M72908	ELISA, IHC, IF, WB
10R-2010	SOX2 antibody	Mouse/10F10C9	ELISA, WB
70R-SR013	SOX2 antibody	Rabbit	WB
20R-2500	SOX2 antibody	Rabbit	WB
70R-12166	SOX2 antibody	Rabbit	WB
70R-20460	SOX2 antibody	Rabbit	ELISA, IF
70R-33158	SOX2 antibody	Rabbit	WB
70R-33160	SOX2 antibody	Rabbit	WB

PROTEINS

Catalog No.	Product Name	Species	Type
30R-AS055	SOX2 protein	Human	Recombinant
80R-1281	SOX2 protein (His tag)	Human	Recombinant
30R-AS056	SOX2 TAT protein	Human	Recombinant

Oct4

ANTIBODIES

Catalog No.	Product Name	Host/Clone	Applications
10R-6552	Oct3/4 antibody	Rat/EM92	FC, IP, WB
61R-1358	Oct3/4 antibody (PE)	Rat/EM92	FC
70R-OR005	Oct3/4 antibody	Rabbit	IHC, WB
10R-11005	Oct4 antibody	Mouse/M72786	WB, ELISA
10R-11028	Oct4 antibody	Mouse/M72809	ELISA, FC, IF, WB
10R-2071	Oct4 antibody	Mouse/1D10H6	ELISA, WB
10R-2155	Oct4 antibody	Mouse/3A5	ELISA, WB
10R-2266	Oct4 antibody	Mouse/7E7	ELISA, IF, WB
20R-1653	Oct4 antibody	Rabbit	IHC, IP, WB
20R-2499	Oct4 antibody	Rabbit	WB
70R-21628	Oct4 antibody	Rabbit	ELISA, IHC, IF, WB
10R-10592	Oct4 antibody	Mouse/M79080	WB, ICC

PROTEINS

Catalog No.	Product Name	Species	Type
80R-2652	Oct4 protein (His tag)	Human	Recombinant

Wnt

ANTIBODIES

Catalog No.	Product Name	Host/Clone	Applications
10R-1857	Wnt1 antibody	Mouse/10C8	ELISA, FC, IF, WB
70R-WR002	Wnt1 antibody	Rabbit	ELISA, Inhibition, WB
70R-7124	Wnt1 antibody	Rabbit	WB
70R-11918	Wnt1 antibody	Rabbit	WB
70R-12429	Wnt1 antibody	Rabbit	WB
70R-30833	Wnt1 antibody	Rabbit	WB, IHC, IF, ELISA
20R-1650	Wnt2 antibody	Rabbit	WB
70R-5380	Wnt2 antibody	Rabbit	WB
70R-11919	Wnt2 antibody	Rabbit	WB
70R-21324	Wnt2 antibody	Rabbit	ELISA, IHC, WB
20R-WR003	Wnt2B antibody	Rabbit	IHC-P
70R-8496	Wnt2B antibody	Rabbit	WB
70R-4494	Wnt3 antibody	Rabbit	WB
70R-21325	Wnt3 antibody	Rabbit	ELISA, WB
10R-1122	Wnt3a antibody	Mouse/3A6	ELISA, IHC, WB
70R-5284	Wnt3a antibody	Rabbit	WB
70R-WR003	Wnt3 alpha antibody	Rabbit	ELISA, Inhibition, WB
20R-1651	Wnt4 antibody	Rabbit	WB
70R-7471	Wnt4 antibody	Rabbit	WB
70R-6956	Wnt5A antibody	Rabbit	WB
10R-1911	Wnt5A antibody	Mouse/3D10	ELISA, IHC, WB
10R-2049	Wnt5A antibody	Mouse/6F2	ELISA, IF, IHC, WB
10R-10917	Wnt5A antibody	Mouse/M72698	WB, IHC, ELISA
10R-11100	Wnt5A antibody	Mouse/M72881	ELISA, IHC, IF, WB
70R-1563	Wnt5B antibody	Rabbit	WB
70R-5289	Wnt5B antibody	Rabbit	WB
20R-1649	Wnt6 antibody	Rabbit	IHC, WB
70R-7182	Wnt6 antibody	Rabbit	WB
70R-11917	Wnt6 antibody	Rabbit	WB
70R-21327	Wnt7A antibody	Rabbit	ELISA
70R-6473	Wnt7B antibody	Rabbit	WB
70R-1573	Wnt9B antibody	Rabbit	WB, IHC
70R-7246	Wnt9B antibody	Rabbit	WB
20R-WR004	Wnt10A antibody	Rabbit	IHC-P
70R-8497	Wnt10A antibody	Rabbit	IHC, WB
70R-13410	Wnt10A antibody	Rabbit	WB
70R-5288	Wnt10B antibody	Rabbit	WB
10R-1870	Wnt10B antibody	Mouse/5A7	ELISA, IF, IHC, WB
70R-12950	Wnt11 antibody	Rabbit	IF, ICC, IHC-P, WB
70R-1909	Wnt16 antibody	Rabbit	WB
70R-2001	Wnt16 antibody	Rabbit	WB

PROTEINS

Catalog No.	Product Name	Species	Type
30R-AW002	Wnt1 protein	Human	Recombinant
30R-2697	Wnt1 protein	Human	Recombinant
30R-3328	Wnt3a protein	Human	Recombinant
30R-3315	Wnt3a protein (Mouse)	Mouse	Recombinant
80R-3494	Wnt7A protein (His tag)	Human	Recombinant

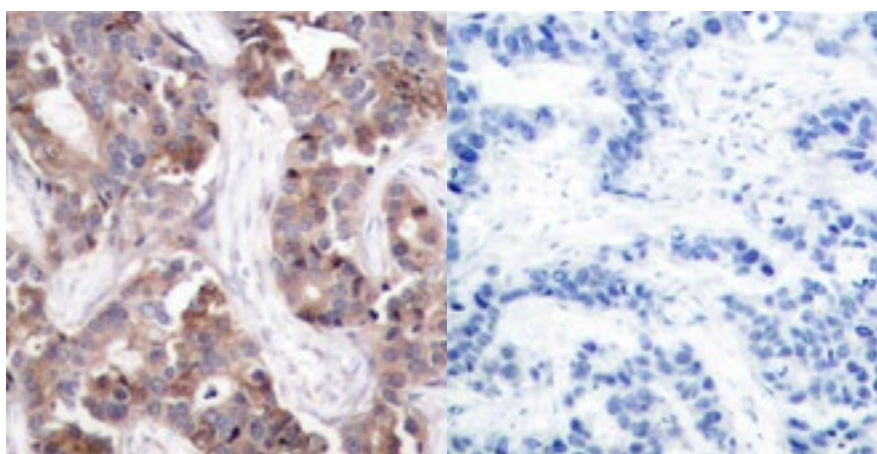


Fig 2: IHC staining using Notch 1 antibody (70R-31090)

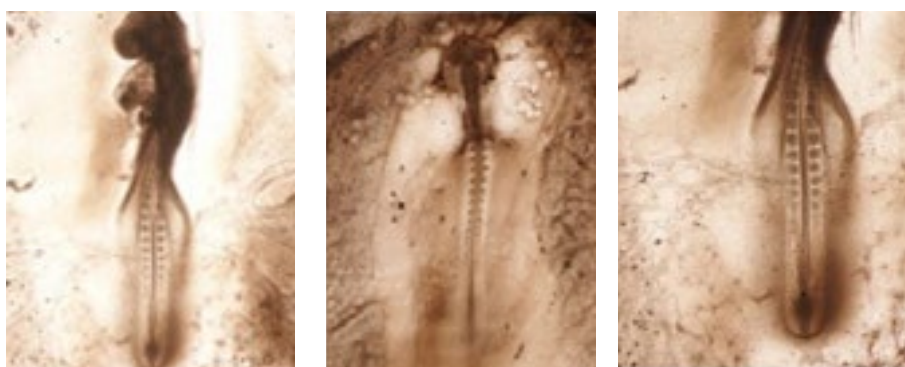
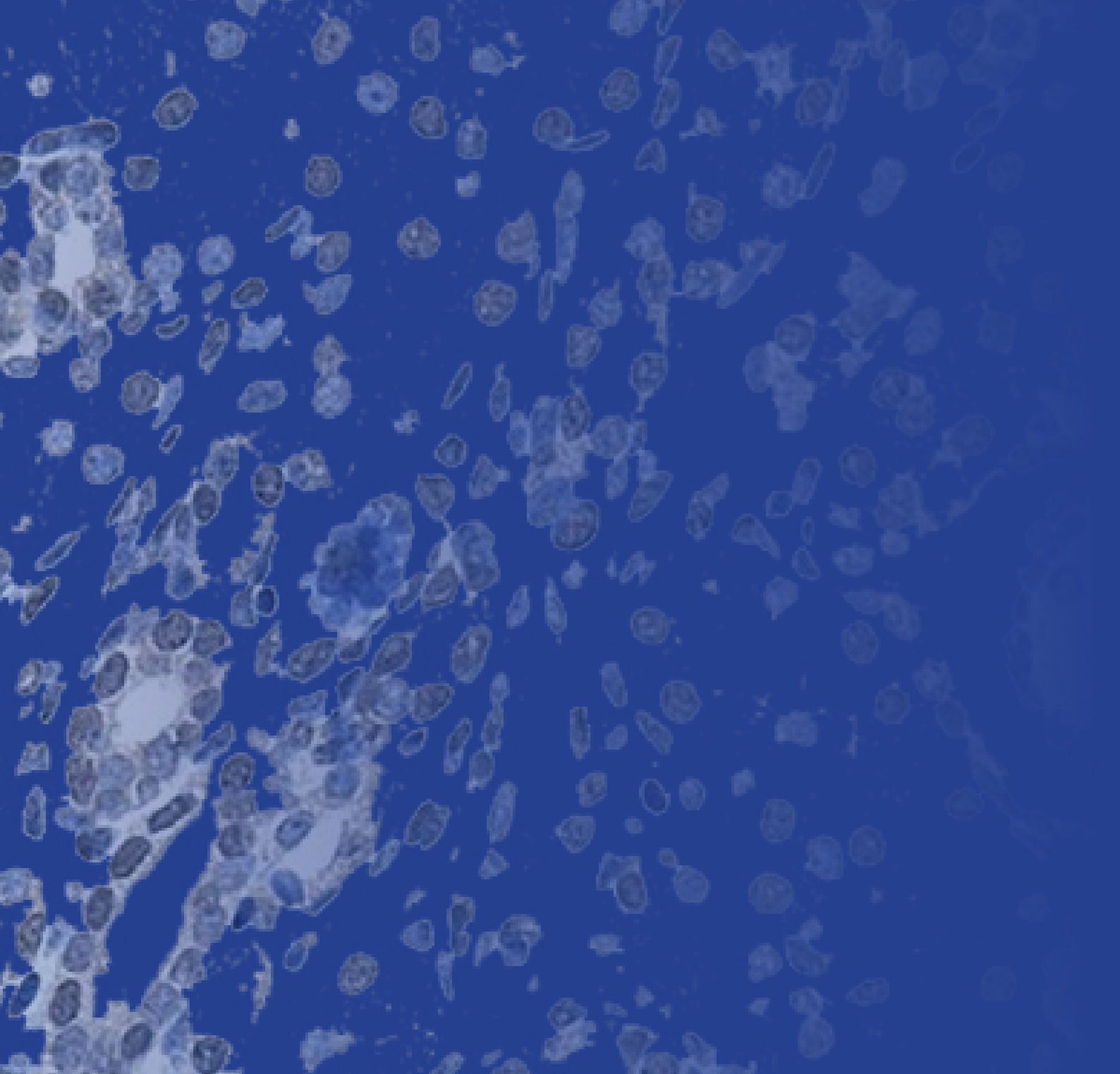


Fig 3: Immunohistochemical staining using Sonic Hedgehog antibody (70R-7123)



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Website www.fitzgerald-fii.com
Email antibodies@fitzgerald-fii.com
Toll Free (USA) 800.370.2222
Tel 978.371.6446
Fax 978.371.2266

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