

**Aborted Fetal Cell Line Products Licensed in USA & Canada & Non-Fetal Alternatives (updated March 2020)**

<b>Disease</b>	<b>Product Name</b>	<b>Manufacturer</b>	<b>Fetal Cell Line</b>	<b>Non-Fetal Version</b>	<b>Manufacturer</b>	<b>Cell Line</b>
Adenovirus Type 4 and Type 7	Adenovirus Type 4 and Type 7 Vaccine, Live, Oral	Barr Labs	WI-38	None	N/A	N/A
Chickenpox	All Varivax, Varilrix	Merck, GSK	WI-38, MRC-5	None	N/A	N/A
Cystic Fibrosis	Pulmozyme	Genentech	HEK-293	N-acetylcysteine, Hyper-sal	Various	N/A
Anemia (Cancer patients, severe kidney disease)	Procrit, Epoetin alfa Epogen, Aranesp, Darbepoetin alfa	Amgen	Human erythropoietin gene from fetal liver lamb da.hE1/	None	N/A	N/A
Ebola – Approved 2020	Advac, VSV-EBOV	J&J/Cruc; BioProt	PER C6, HEK-293	Ervebo (rVSV-ZEBOV) GOVOX-E301, E-302	Merck GeoVax, New Link	VeroEgg
Prevention of angioplasty thrombosis	Abciximab (Repro)	Eli Lilly	HEK-293	Integrilin, Angiomax	Merck, Medicine Co.	N/A
Hemophilia	rhFVI, Nuwiq, Eloctate	Octapharma, BioGen	HEK-293	Advate, Kogenate	Baxter	Hamster
Hepatitis A	Vaqta, Havrix Avaxim, Epaxal	Merck, GSK Sanofi, Berna	MRC-5 MRC-5	Aimmugen None in US or Canada	Kaketsuken (Japan only)	Vero (monkey)
Hepatitis A & B Hepatitis A & Typhoid	Twinrix Vivaxim	GSK Sanofi	MRC-5 MRC-5	Engerix Hep-B Only Recombivax Hep-B, TyphimVi	GSK Merck	Yeast Yeast
Variety (cancer/ autimmune, etc)	G-CSF	Assorted	HEK-293	Neupogen, Zarxio	Amgen, Sandoz	E-coli
Measles-Mumps-Rubella	MMR, Priorix	Merck, GSK	RA273, WI-38, MRC-5	MR+M (Japan only)	Mitsubishi, Kitasato	Egg, rabbit
Measles-Rubella	MR Vax, Eolarix	Merck, GSK	RA273, WI-38, MRC-5	Attenuvax (Measles Only) AIK-C + R, Tanabe + R (Japan)	Merck Kitasato, Mitsubishi	Egg Rabbit, Egg
Mumps-Rubella	Biavax II	Merck	RA273, WI-38	Mumpsvax (Mumps Only)	Merck	Egg
Rubella	Meruvax II	Merck	RA273, WI-38	Matsuura , Takahashi (Japan)	Mitsubishi, Kitasato	Egg, rabbit
MMR + Chickenpox	ProQuad/MMR-V Priorix Tetra	Merck GSK	RA273, WI-38, MRC-5	None	N/A	N/A
Polio	Poliovax, DT PolAds Polio Sabin (oral)	Sanofi Pasteur GSK	MRC-5 MRC-5	IPOL, IMOVAX® Polio	Sanofi Pasteur	Vero
Polio Combination (DTaP, polio, HiB)	Poliovax, DT PolAds Polio Sabin (oral)	Sanofi Pasteur GSK	MRC-5 MRC-5	Pediacel, Pediarix, InfanrixHexa, InfanrixIPV-HiB, Vaxelis, Kinrix	Sanofi, GSK	Vero
Rabies	Imovax**	Sanofi Pasteur	MRC-5	RabAvert	GSK	Egg
Rheumatoid Arthritis	Enbrel	Amgen	WI-26 VA4 - RDNA	Humira, Cimzia, Orencia	Abbott, UCB, BMS	Hamster
Shingles	Zostavax	Merck	WI-38, MRC-5	Shingrix	GSK	Hamster
Smallpox	Acambis 1000	Acambis	MRC-5	ACAM2000, MVA3000	K Acambis/Baxter	Vero