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Cell Lineage  
Target Symbol

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PIK3CD (PI3 kinase delta)	Khan, K. H., Yag, T. A., Yan, L., & Cunningham, D. (2013). Targeting the PI3K-AKT-mTOR signaling network in cancer. <i>Chinese Journal of Cancer</i> , 32(5), 253-265. doi:10.5732/cjc.013.10057	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4633945/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4633945/</a>	
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PTEN	Zaubier, L., Petricoin, E. F., Vuerhard, M. J., Calvert, V., Kooi, C., Buji-Gladdines, J. G. C. A. M., ... Mejerink, J. P. P. (2012). The significance of PTEN and AKT1 aberrations in pediatric T-cell acute lymphoblastic leukemia. <i>Haematologica</i> , 97(9), 1405-1413. <a href="http://doi.org/10.3324/haematol.2011.059030">http://doi.org/10.3324/haematol.2011.059030</a>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3436243/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3436243/</a>	
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**Tumor MicroENVT&Immu noTherapy Target**

Symbol	Citation(1)	Link(1)	Citation(2)	Link(2)	Citation(3)	Link(3)	Comments
B7H3	Theruvath J, Heitzensoder S, Majzner R, Cui K, Nellan A, Graef C, M... . Mitra S. S. (2017). Immune-45 Checkpoint Molecule B7-H3 Is Highly Expressed On Medulloblastoma And Proves To Be A Promising Candidate For Car T Cell Immunotherapy. Neuro-Oncology, 19(Suppl_6), vi123-v122. doi:10.1093/neuonc/nwx168.503	<a href="https://academic.oup.com/neuro-oncology/article-abstract/19/suppl_6/vi123/4599331?redirectedFrom=ultrixt">https://academic.oup.com/neuro-oncology/article-abstract/19/suppl_6/vi123/4599331?redirectedFrom=ultrixt</a>	Yafian M, Yari F, Ghannazadeh M, Fallah Azad V, Haghjoo M. Induction of Apoptosis in Cancer Cells of pre-B ALL Patients after Exposure to Platelets, Platelet-Derived Microparticles and Soluble CD40 Ligand. Cell Journal (Yakhteh). 2018;20(1):130-136. doi:10.22074/cellj.2018.5032.	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5799674/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5799674/</a>			
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CD47	An Anti-CD47 Antibody Is Effective in Pediatric Brain Tumor Models. (2017). Cancer Discovery, 7(5). doi:10.1158/2159-8290.cd-rw.2017-057	<a href="http://cancerdiscovery.aacrjournals.org/content/7/5/453.2.full-text.pdf">http://cancerdiscovery.aacrjournals.org/content/7/5/453.2.full-text.pdf</a>					
CD52	Angiolillo, A. L., Yu, A. L., Reaman, G., Ingle, A. M., Secola, R., & Adamson, P. C. (2009). A Phase II Study of Campath-1H in Children with Relapsed or Refractory Acute Lymphoblastic Leukemia: A Children's Oncology Group Report. Pediatric Blood & Cancer, 53(6), 978-983. http://doi.org/10.1002/pbc.22209	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3120889/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3120889/</a>					
CXCR4	Matsuo, H., Nakamura, N., Tomizawa, D., Saito, A. M., Kiyokawa, N., Horibe, K., . . . Adachi, S. (2016). CXCR4 Overexpression is a Poor Prognostic Factor in Pediatric Acute Myeloid Leukemia With Low Risk: A Report From the Japanese Pediatric Leukemia/Lymphoma Study Group. Pediatric Blood & Cancer, 63(8), 1394-1399. doi:10.1002/pbc.26035	<a href="https://www.ncbi.nlm.nih.gov/pubmed/27135782">https://www.ncbi.nlm.nih.gov/pubmed/27135782</a>					
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CTLA4	Merchant, M. S., Wright, M., Baird, K., Wexler, L. H., Rodriguez-Galindo, C., Bernstein, D., . . . Mackall, C. L. (2016). Phase I Clinical Trial of Ipilimumab in Pediatric Patients With Advanced Solid Tumors. Clinical Cancer Research: An Official Journal of the American Association for Cancer Research, 22(6), 1364-1370. http://doi.org/10.1158/1078-0432.CCR-15-0491	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5027962/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5027962/</a>					
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IDO1	Folgiero, V., Goffredo, B. M., Filippini, P., Masetti, R., Bonanno, G., Caruso, R., . . . Rutella, S. (2013). Indoleamine 2,3-dioxygenase 1 (IDO1) activity in leukemia blasts correlates with poor outcome in childhood acute myeloid leukemia. Oncotarget, 5(8). doi:10.18632/oncotarget.1504	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4039141/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4039141/</a>					
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LAG3	Birley, K., Chester, K., & Anderson, J. (2018). Antibody based therapy for childhood solid cancers. Current Opinion in Chemical Engineering, 19, 153-162. doi:10.1016/j.coche.2018.01.005	<a href="https://www.sciencedirect.com/science/article/pii/S2211339817300503">https://www.sciencedirect.com/science/article/pii/S2211339817300503</a>					
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FOLR1 (folate receptor 1)	Oentas, R. J., Lee, D. W., & Mackall, C. (2012). Immunotherapy Targets in Pediatric Cancer. <i>Frontiers in Oncology</i> , 2, 3. <a href="http://doi.org/10.3389/fonc.2012.00003">http://doi.org/10.3389/fonc.2012.00003</a> <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3355849/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3355849/</a> .	Liu H, Sun Q, Zhang M, et al. Differential expression of folate receptor 1 in medulloblastoma and the correlation with clinicopathological characters and target therapeutic potential. <i>Oncotarget</i> . 2017;8(14):23048-23060. doi:10.18632/oncotarget.15480. <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5410284/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5410284/</a> .	
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MCL1	Landtke, D. A., Niu, X., Pan, Y., Zhao, J., Liu, S., Edwards, H., ... Ge, Y. (2017). Inhibition of Mcl-1 enhances cell death induced by the Bcl-2-selective inhibitor ABT-199 in acute myeloid leukemia cells. <i>Signal Transduction and Targeted Therapy</i> , 2, 17012. doi:10.1038/s41247-017-12 <a href="https://www.nature.com/articles/sigtrans01712">https://www.nature.com/articles/sigtrans01712</a> .		
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WEE1

**Automatic  
Waivers**

Target Symbol	Citation(1)	Link(1)	Citation(2)	Link(2)	Comment
AR	Sun, J., Wang, D., Guo, L., Fung, S., Wang, Y., & Xing, R. (2017). Androgen Receptor Regulates the Growth of Neuroblastoma Cells in vitro and in vivo. <i>Frontiers in Neuroscience</i> , 11, 116. <a href="http://doi.org/10.3389/fnins.2017.00116">http://doi.org/10.3389/fnins.2017.00116</a>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5339338/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5339338/</a>			
ESR1	Lovén, J., Zinin, N., Wahlsström, T., Müller, I., Brodin, P., Fredlund, E., ... Henriksson, M. (2010). MYCN-regulated microRNAs repress estrogen receptor- $\alpha$ (ESR1) expression and neuronal differentiation in human neuroblastoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 107(4), 1553–1558. <a href="http://doi.org/10.1073/pnas.0913517107">http://doi.org/10.1073/pnas.0913517107</a>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2824410/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2824410/</a>			
ESR2	Ashton, K., Prietto, A., Otton, G., Symonds, L., Meevoy, M., Attia, J., ... Scott, R. (2009). Estrogen receptor polymorphisms and the risk of endometrial cancer. <i>BIOG: An International Journal of Obstetrics &amp; Gynaecology</i> , 116(8), 1053–1061. doi:10.1111/j.1471-0528.2009.02185.x	<a href="https://obgyn.onlinelibrary.wiley.com/doi/full/10.1111/j.1471-0528.2009.02185.x">https://obgyn.onlinelibrary.wiley.com/doi/full/10.1111/j.1471-0528.2009.02185.x</a>			
GnRHR	Cheng, C. K., Chow, B. K., & Leung, P. C. (2003). An Activator Protein 1-Like Motif Mediates 17 $\beta$ -Estradiol Repression of Gonadotropin-Releasing Hormone Receptor Promoter via an Estrogen Receptor $\alpha$ -Dependent Mechanism in Ovarian and Breast Cancer Cells. <i>Molecular Endocrinology</i> , 17(12), 2613–2629. doi:10.1210/me.2003-0217	<a href="https://academic.oup.com/mend/article/17/12/2613/2747437">https://academic.oup.com/mend/article/17/12/2613/2747437</a>			
PSA/PSCA/PSMA	Matera, L. (2010). The choice of the antigen in the dendritic cell-based vaccine therapy for prostate cancer. <i>Cancer Treatment Reviews</i> , 36(2), 131–141. doi:10.1016/j.ctrv.2009.11.002	<a href="https://www.ncbi.nlm.nih.gov/pubmed/19954892">https://www.ncbi.nlm.nih.gov/pubmed/19954892</a>	Cho, H., Cockle, P., Binder, J., Resini, W., White, P., & Jooss, K. Vaccine based immunotherapy regimen (VBIR) for the treatment of prostate cancer. <i>Cancer Res</i> , 76, (14 Supplement), LB-093-LB-093 (2016)		