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Datasheet for ABIN3728225 Human MCL1 shRNA in Retroviral Vector (GFP tag)

4 Publications

Overview

Quantity:	1 kit
Gene:	MCL-1 (MCL1)
Species:	Human
Fusion tag:	GFP tag
Insert:	shRNA
Vector:	Retroviral Vector
Application:	RNA Interference (RNAi)
Draduat Dataila	
Product Details	
Purpose:	Pre-designed Hush-29 shRNAs in viral vectors with proven effectiveness for knock-down of
	Human MCL1.
Brand:	HuSH-29™
Vector Backbone:	pGFP-V-RS
Promoter:	U6 Promoter
Selectable Marker:	Puromycin
Bacterial Resistance:	Kanamycin
Expression Type:	Transient, Stable
Specificity:	The HuSH shRNA gene-specific expression cassettes were optimized to include both the
	termination signal for RNA Pol III and GC content targeted at 50 % to further improve the
	quality of the gene-specific shRNA expression vectors.
	One of the four constructs at minimum are guaranteed to produce 70 % or more gene

expression knock-down provided a minimum transfection efficiency of 80 % is achieved.

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Product Details	
Characteristics:	 The shRNA gene-specific expression cassettes are prepared using synthetic oligonucleotides.
	 These oligonucleotide sequences were computer designed for optimal suppression of gene expression and minimal off-target effects.
	All shRNA sequences are verified through DNA sequencing analysis.
Components:	 Gene-specific shRNA in pGFPC-shLenti vector, 4 unique constructs per gene, 5 ug per vial. HuSH 29-mer Scrambled in pGFP-C-shLenti 5 ug plasmid DNA.

Target Details

Gene:	MCL-1 (MCL1)
Alternative Name:	MCL1 (MCL1 Products)
Application Details	
Application Notes:	 Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Storage:	4 °C/-20 °C
Storage Comment:	The dried plasmids can be stored at 4°C. However, once reconstituted with dH2O, the plasmids must be stored at -20°C.
Publications	
Product cited in:	Nolan, Walter, Tuffy, Poeschel, Gallagher, Haunsberger, Bray, Stallings, Concannon, Prehn: "
	Endoplasmic reticulum stress-mediated upregulation of miR-29a enhances sensitivity to
	neuronal apoptosis." in: The European journal of neuroscience , Vol. 43, Issue 5, pp. 640-52, (
	2016) (PubMed).
	Murphy, Weyhenmeyer, Noonan, Kilbride, Schimansky, Loh, Kögel, Letai, Prehn, Murphy: "
	Modulation of McI-1 sensitizes glioblastoma to TRAIL-induced apoptosis." in: Apoptosis : an
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international journal on programmed cell death, Vol. 19, Issue 4, pp. 629-42, (2014) (PubMed).

Jane, Premkumar, DiDomenico, Hu, Cheng, Pollack: "YM-155 potentiates the effect of ABT-737 in malignant human glioma cells via survivin and Mcl-1 downregulation in an EGFR-dependent context." in: **Molecular cancer therapeutics**, Vol. 12, Issue 3, pp. 326-38, (2013) (PubMed).

Premkumar, Jane, Foster, Pollack et al.: "Survivin inhibitor YM-155 sensitizes tumor necrosis factor- related apoptosis-inducing ligand-resistant glioma cells to apoptosis through Mcl-1 downregulation and by engaging the mitochondrial death ..." in: **The Journal of pharmacology and experimental therapeutics**, Vol. 346, Issue 2, pp. 201-10, (2013) (PubMed).