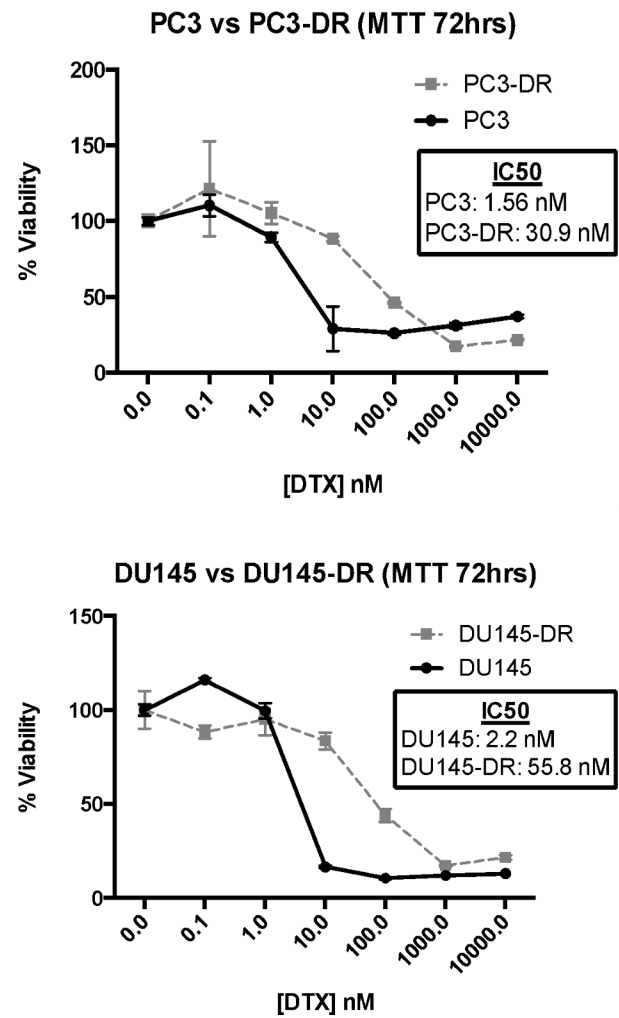
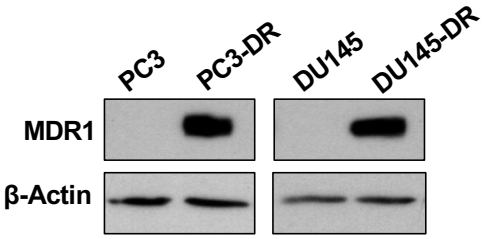


Supplementary
Fig. S1

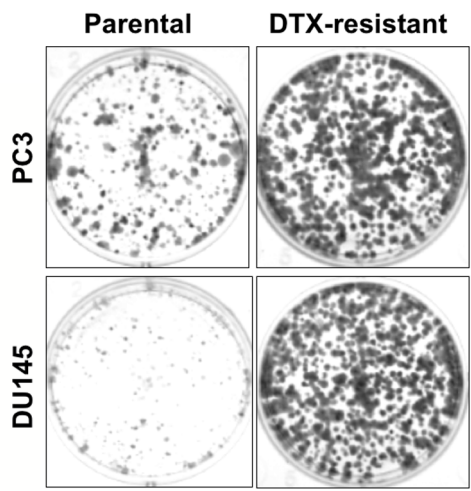
A



B



C



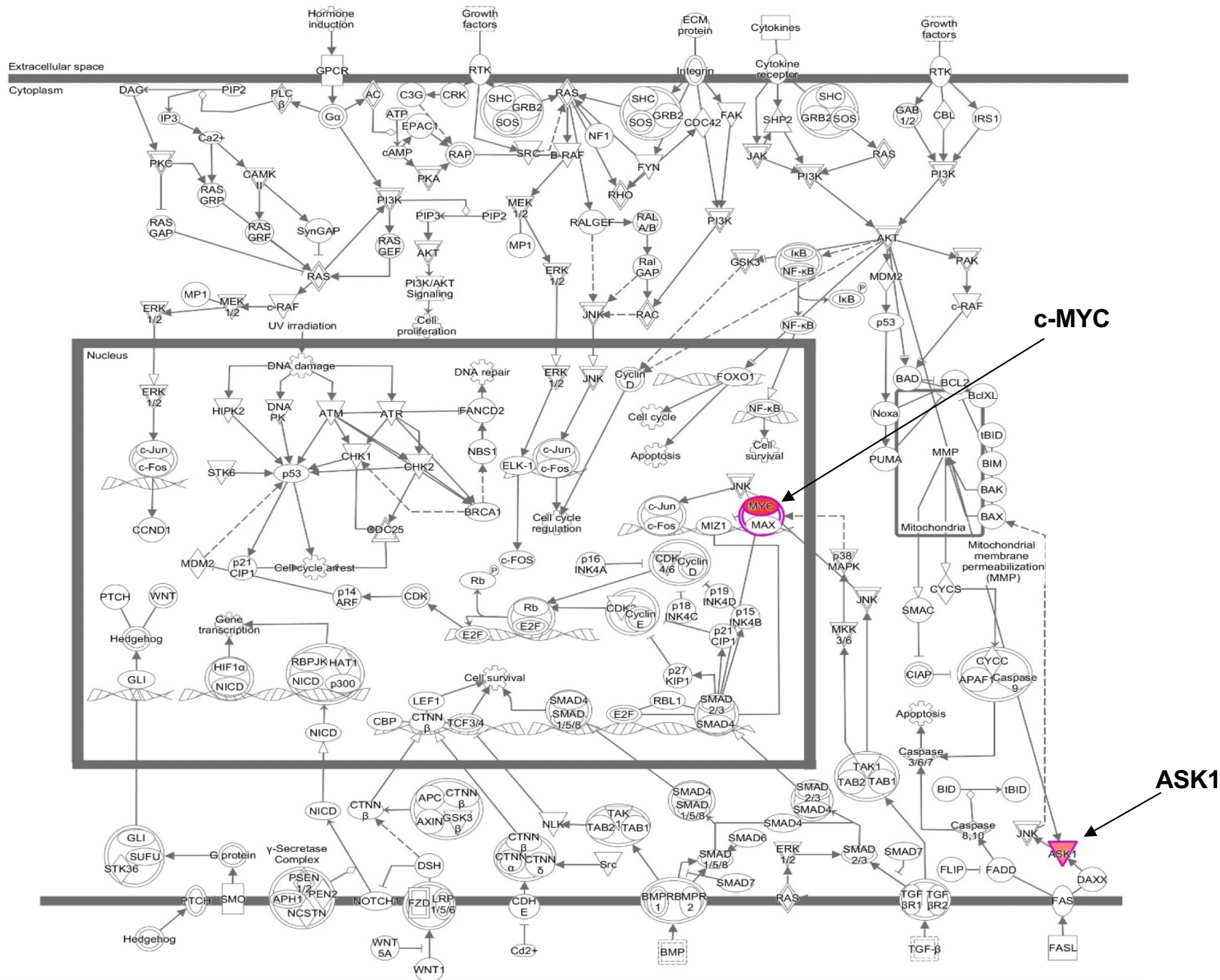
Supplementary Table S1. List of canonical pathways revealed by Ingenuity Pathway Analysis of the LEDGF/p75 interactome in PC3 cells

Canonical Pathways	Associated signaling molecules		Upstream regulators	p-values
p38 MAPK Signaling	ASK1/MAP3K5, MYC	-		9.32e-04
HOTAIR Regulatory Pathway	MLL/KMT2A, MYC	PRC2, HOXD10, MIR7, SETDB1, STAT3		1.7e-03
Endoplasmic Reticulum Stress Pathway	ASK1/MAP3K5	-		8.25e-03
Polyamine Regulation in Colon Cancer	MYC	TCF4-CTNN β		9.04e-03
Molecular Mechanisms of Cancer	ASK1/MAP3K5, MYC	Smad2/3-Smad4		1.02e-02
Estrogen-mediated S-phase Entry	MYC	-		1.02e-02
4-1BB Signaling in T Lymphocytes	ASK1/MAP3K5	-		1.26e-02
Cardiac Hypertrophy Signaling (Enhanced)	ASK1/MAP3K5, MYC	-		1.54e-02
BAG2 Signaling Pathway	MYC	-		1.68e-02
Myc Mediated Apoptosis Signaling	MYC	-		1.96e-02
CD27 Signaling in Lymphocytes	ASK1/MAP3K5	-		2.07e-02
Unfolded protein response	ASK1/MAP3K5	-		2.19e-02
Endometrial Cancer Signaling	MYC	-		2.34e-02
Induction of Apoptosis by HIV1	ASK1/MAP3K5	-		2.38e-02
Thrombopoietin Signaling	MYC	-		2.46e-02
ErbB2-ErbB3 Signaling	MYC	-		2.54e-02
Cell Cycle: G1/S Checkpoint Regulation	MYC	-		2.61e-02
Small Cell Lung Cancer Signaling	MYC	-		2.77e-02
ERK5 Signaling	MYC	-		2.8e-02
IL-15 Signaling	MYC	STAT5		2.92e-02
Role of MAPK Signaling in Inhibiting the Pathogenesis of Influenza	ASK1/MAP3K5	-		2.92e-02
Neurotrophin/TRK Signaling	ASK1/MAP3K5	-		2.96e-02
IL-7 Signaling Pathway	MYC	-		3.04e-02
Thyroid Cancer Signaling	MYC	TCF/LEF		3.07e-02
Role of MAPK Signaling in the Pathogenesis of Influenza	ASK1/MAP3K5	-		3.11e-02
Prolactin Signaling	MYC	-		3.15e-02
LPS-stimulated MAPK Signaling	ASK1/MAP3K5	-		3.23e-02
FGF Signaling	ASK1/MAP3K5	-		3.27e-02
PDGF Signaling	MYC	-		3.34e-02
Acute Myeloid Leukemia Signaling	MYC	TCF/LEF		3.46e-02
RAK Signaling in Osteoclasts	ASK1/MAP3K5	-		3.46e-02
Death Receptor Signaling	ASK1/MAP3K5	MKK 4/7, JNK1, BCL-2, DIABLO, HtrA2, CYCS, APAF1, Apaf1-Cyts, CASP 9, CASP 7, XIAP, CASP 3, CASP 6, DNA Repair, DFFA, DFFB, DNA fragmentation, Apoptosis, ACIN1, Chromatin condensation, ARHGDIB, ACTIN, Cell shrinkage		3.57e-02
Bladder Cancer Signaling	MYC	MSK1		3.76e-02
Apoptosis Signaling	ASK1/MAP3K5	-		3.88e-02
SAPK/JNK Signaling	ASK1/MAP3K5	-		3.95e-02
Chronic Myeloid Leukemia Signaling	MYC	-		3.99e-02
Mouse Embryonic Stem Pluripotency	MYC	CTNN β , STAT3 dimer		3.99e-02
Sumoylation Pathway	ASK1/MAP3K5	-		3.99e-02
Neuregulin Signaling	MYC	-		4.07e-02
Telomerase Signaling	MYC	-		4.14e-02
Role of MAPK Signaling in Promoting the Pathogenesis of Influenza	ASK1/MAP3K5	-		4.26e-02
Type 1 Diabetes Mellitus Signaling	ASK1/MAP3K5	-		4.29e-02
NGF Signaling	ASK1/MAP3K5	-		4.41e-02
HGF Signaling	ASK1/MAP3K5	-		4.64e-02
14-3-3-mediated Signaling	ASK1/MAP3K5	-		4.9e-02
P2Y Purigenic Receptor Signaling Pathway	MYC	-		4.9e-02

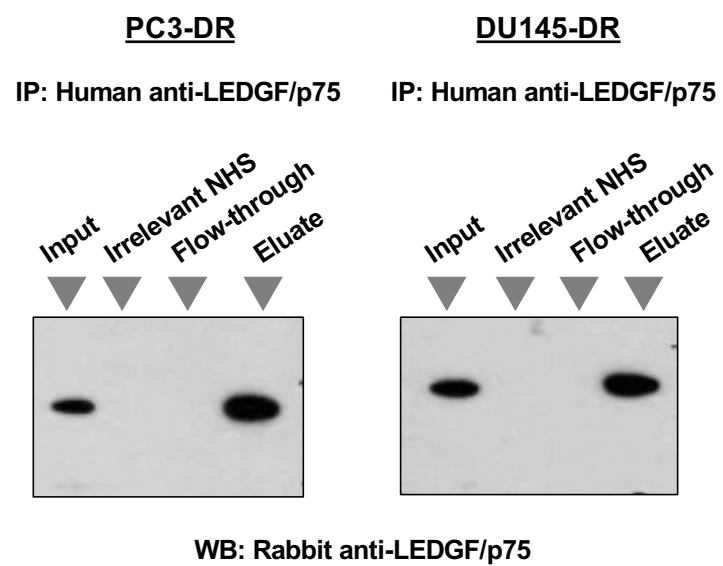
Molecular Mechanisms of Cancer pathway

Supplementary Fig. S2

Molecular Mechanisms of Cancer : PC3 cell line_9 : Expr Fold Change

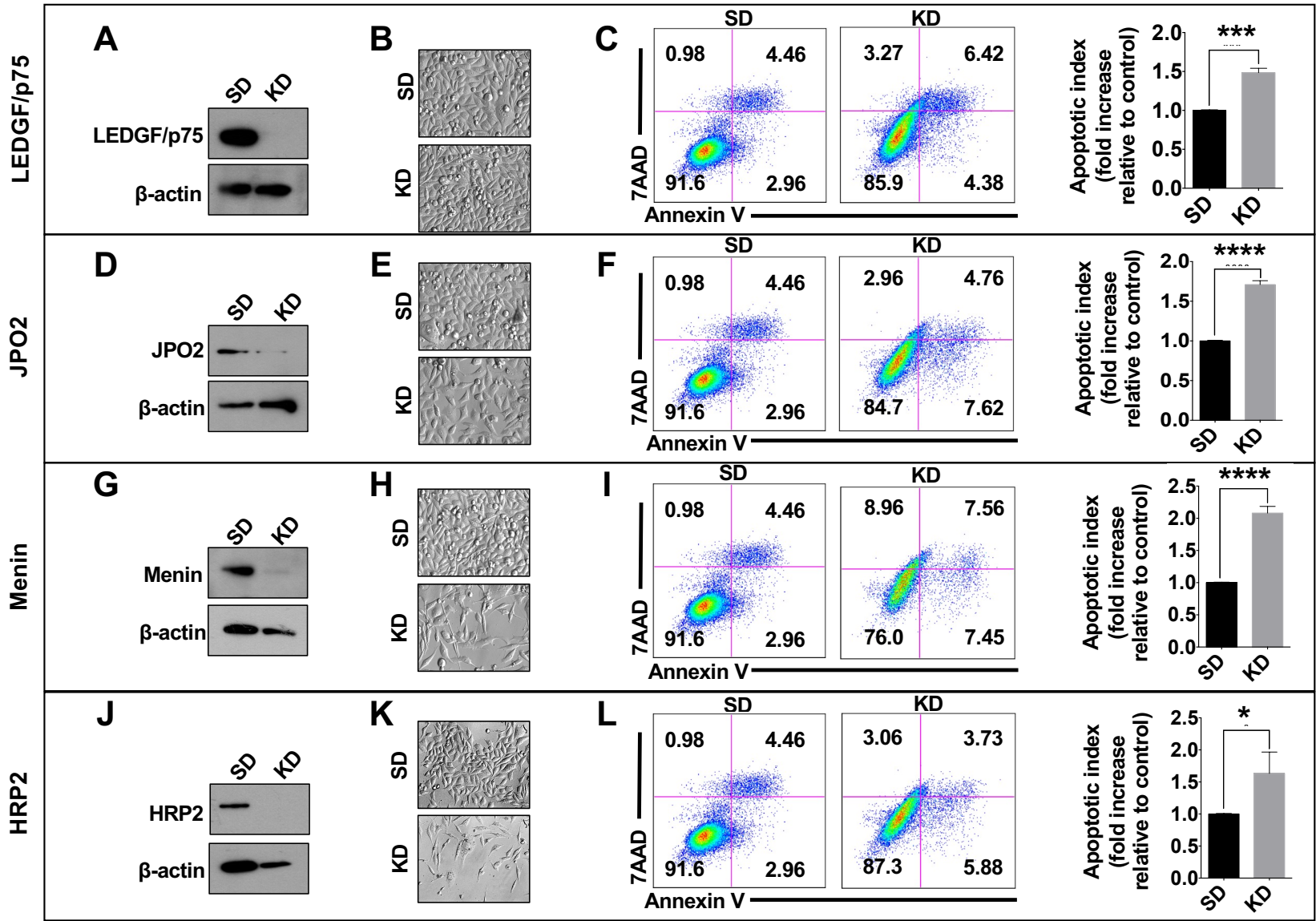


**Supplementary
Fig. S3**

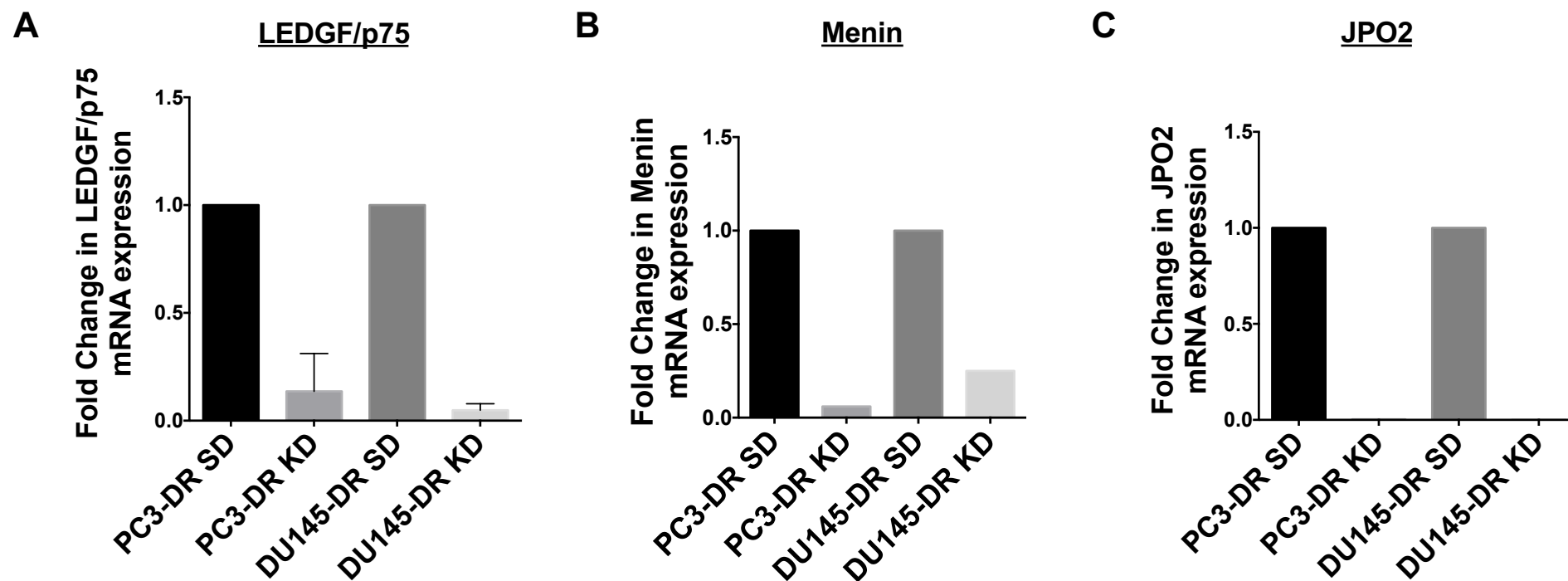


Supplementary
Fig. S4

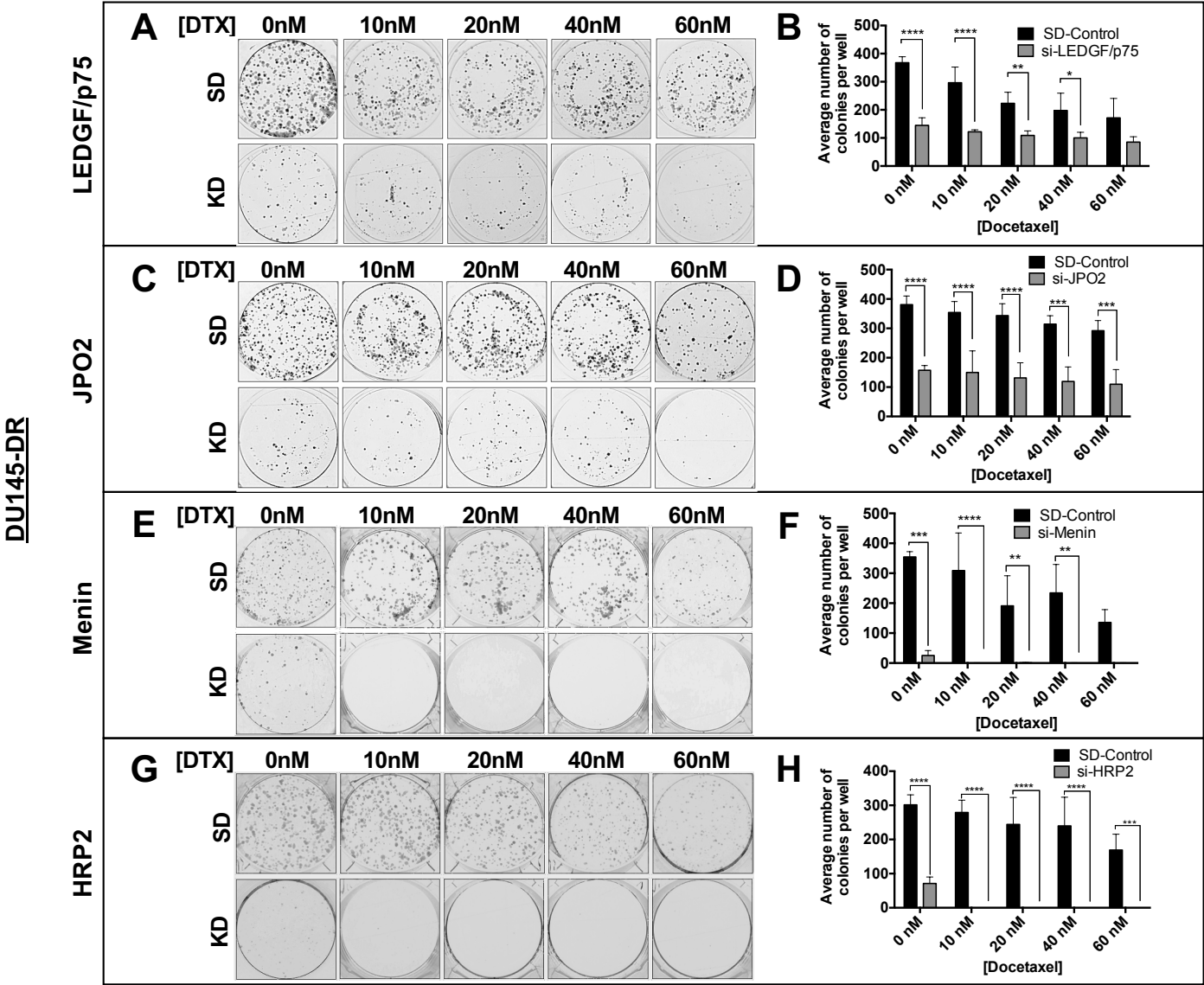
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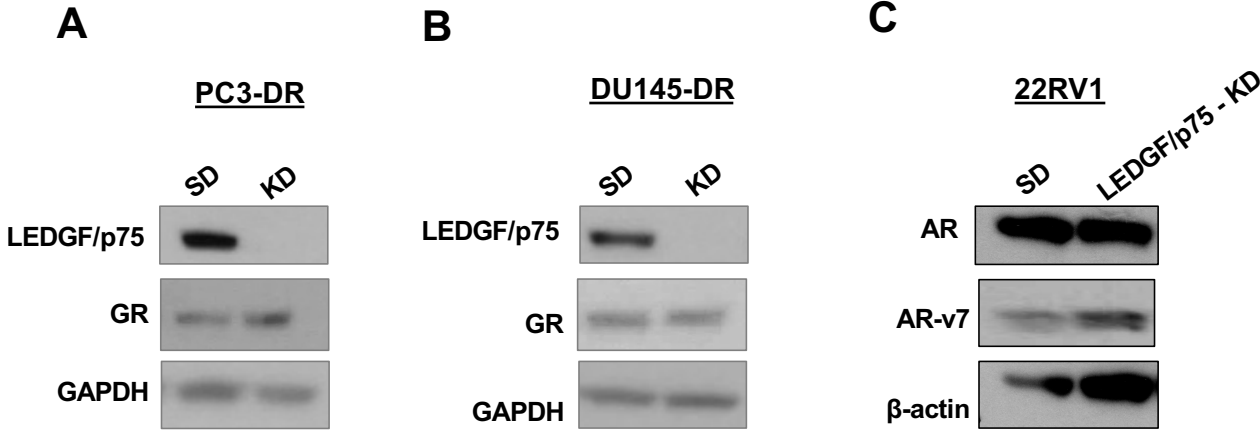
Supplementary
Fig. S5



Supplementary
Fig. S6



Supplementary
Fig. S7



Supplementary
Fig. S8

