

On-line supplementary materials

**Modulation of Cancer-associated Fibrotic Stroma by An Integrin $\alpha_v\beta_3$
Targeting Protein for Pancreatic Cancer Treatment**

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Reagents, Antibodies, and Cells used in the study are listed in table 1

Table 1 Reagents, antibodies, and cell lines

| Reagent or Resource | Source | Identifier |
|---------------------------------------|------------------------------|--------------|
| Gemcitabine, HCl | EMD Millipore | 504594 |
| Gemcitabine-5'-triphosphate (dFdCTP) | Sierra Bioresearch | |
| 2,2-Difluoro-2-deoxyuridine | Santa Cruz Biotechnology | sc-220827 |
| Ultravision Peroxidase block | Thermo Scientific | TA060H2O2Q |
| Ultravision Protein block | Thermo Scientific | TA060PBQ |
| Antibody diluent OP Quanto | Thermo Scientific | TA-125-ADQ |
| Betazoid DAB Chromogen kit | Biocare Medical | BDB2004L |
| DEPEX mounting media | Electron Microscopy Sciences | 13514 |
| Coverslips | Thermo Scientific | 102420 |
| Tris Base | Fisher Scientific | BP154-1 |
| Tween-20 | Sigma-Aldrich | P5927 |
| Citrate buffer | Sigma-Aldrich | C9999-1000ML |
| Xylenes | Fisher Scientific | X5-4 |
| Ethanol | Decon Lab | 22032601 |
| Large Volume Mayer's Hematoxylin | Thermo Scientific | TA-125-MH |
| DirectPCR Lysis Reagent (Mouse Tail) | Viagen Biotech | 102-T |
| PCR Master Mix | Thermo Scientific | F548S |
| 100bp DNA Ladder | Thermo Scientific | SM1143 |
| Molecular Biology Agarose | Bio-Rad | 1613101 |
| StainTray™ Slide Staining System | Simport Scientific | 1159J70 |
| Hypoxia Incubator Chamber | Stemcell Technologies | 27310 |
| Alexa Fluor 595 conjugated goat IgG | Thermo Scientific | A-11032 |
| Alexa Fluor 488 conjugated paclitaxel | Thermo Scientific | P22310 |
| Cda siRNA | Santa Cruz Biotechnology | sc-60342 |
| | | |
| | | |
| Antibodies | | |
| α SMA | abcam | AB5694 |
| Phospho Akt | abcam | AB81283 |
| Cleaved caspase-3 | abcam | AB49822 |
| Cytidine deaminase | Thermo Scientific | PA5-27478 |
| Dck | Thermo Scientific | PA5-21846 |
| GAPDH | Santa Cruz Biotechnology | sc-32233 |
| Hif1 α | MilliporeSigma | MAB5382 |
| IGF1 | Thermo Scientific | MA5-18035 |
| IGF-IR β | Santa-Cruz Biotechnology | sc-390130 |
| pIGF-IR β | Santa Cruz Biotechnology | sc-390130 |
| Integrin α V | Santa-Cruz Biotechnology | sc-6617 P |
| Integrin β 3 | Sigma-Aldrich | SAB4300361 |
| PECAM-1/CD31 | abcam | AB9498 |

| | | |
|--|----------------------------|----------------|
| Tdk | Thermo Scientific | PA5-13813 |
| Ki67 | abcam | AB15580 |
| Proteinase K | Thermo Scientific | EO0491 |
| | | |
| Chemicals, Peptides, and Recombinant Proteins | | |
| Recombinant murine IGF1 | | 791-MG |
| | | |
| Commercial Assay kits | | |
| | | |
| Picro sirus red staining kit | IHC world | IW-3012 |
| Masson's trichrome kit | IHC world | IW-3006 |
| Human IGF1 ELISA kit | R&D systems | DG100 |
| Novaultra Oil red O stain kit | IHC world | IW-3008 |
| Annexin V-FITC Apoptosis Staining Kit | abcam | ab14085 |
| BrdU Cell Proliferation Assay | Millipore | 2752 |
| <i>Mouse IGF1 ELISA kit</i> | <i>R&D systems</i> | <i>MG100</i> |
| | | |
| Experimental Models: Cell Lines | | |
| KPC 961 | Gift from Dr. Pankaj Singh | Univ. Nebraska |
| BxPC3 | ATCC | CRL-1687 |
| Panc1 | ATCC | CRL-1469 |
| Panc89 | Gift from Dr. Ritu Aneja | GSU |
| MiaPaca-2 | ATCC | CRL-1420 |
| Capan1 | ATCC | CRL-1687 |
| | | |
| Experimental Models: Animals | | |
| Mouse: Kras+/LSL-G12D; (C57BL/6J background) | The Jackson Laboratory | 008179 |
| Mouse: Trp53+/LSL-R172H (C57BL/6J background) | The Jackson Laboratory | 008652 |
| Mouse: Pdx1-Cre (C57BL/6J background) | The Jackson Laboratory | 014647 |
| Mouse: C57BL/6J (for OrKPC) | The Jackson Laboratory | 000664 |
| Athymic nude mice (for xenograft) | ENVIGO | |