SUPPLEMENTARY DATA

Proteolytic cleavage and truncation of NDRG1 in human prostate cancer cells, but not normal prostate epithelial cells

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Supplementary Figures S1 and S2 are on the following pages

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Figure S1  Post-translational modifications for α-casein, NDRG1 and fetuin proteins

(A) Bovine α-S1-casein protein is phosphorylated on nine amino acid residues according to Uniprot. The bovine α-S1-casein protein contains nine phosphorylation sites according to the Uniprot website (http://www.uniprot.org/uniprot/P02662). Phosphorylation sites in bold red.

MKLLILTCLVAVALARPKHPIKHQLPQELNENLLRFVAPFPEVFGKEKNELSKDIGSESTEDQAMEDIKQMEAESISSSEEIVPNSSVEQKH1QKEDVPSRYLGYLQLLRLKKKYV0QLEивПАНСАЕЕРЛHSMKЕGHIHQQKЕPMGВNQELAYFYPELRFQFYQLDAYPSGAWYYVPLGTTYDAPSFSDIPNPIGSENKЕТТМPLW (214 amino acids at 25 kDa).

(B) Human NDRG1 protein has the potential to be phosphorylated on 15 amino acid residues according to Uniprot. The human NDRG1 protein contains 15 phosphorylation sites according to the Uniprot website (http://www.uniprot.org/uniprot/Q92597). Phosphorylation sites in bold red.

MSREMQDVLAEVKPLVEKGETITGLQLQQEFQDIETLHGSHVHTC recognizable regions according to new MR

HMDKCTCNPLFNYEDMIEITQHQFVCHVDAPGQGQAASFPAGYMPSMDQLAEMLPGVLQFGLKSIIGMGGTGAGYILRTFALNPMEVEGLVINVNPCAEGWMDAAKISGWFTQALPDVMVSHLFKEEMQMNVEVHRYQHVNDMNPGLHLFINAYNSRDLIEIPMPMTCHMTVTLQCPALLVVG

DSSPAVDAVVECNSKLDPTKTTLLKAMDCGGLPQISQPKAKLAEAFKYFVQGMYMPSASMTRLMR

SRTASGSSVTSLDGTRSRSHTSEGTRSRSTSEGTRSRHSEGTRSRHTSEGTRSRHTSEGTRSRHTSEGAHLDITPNSGAAAGNSAGPKSMEVSC (394 amino acids at 43 kDa).

(C) Bovine fetuin glycoprotein contains three N-linked glycans and four O-linked glycans according to Uniprot. The bovine fetuin glycoprotein contains 3 N-linked and 4 O-linked glycosylation sites according to the Uniprot website (http://www.uniprot.org/uniprot/P12763). N-linked glycosylation sites in bold green, whereas O-linked glycosylation sites in bold red.

MKSFVLLFCQLAQLWGHSIPFLPVAGYKEPCADDPDTEQAALAAVDYlNKHLPYKHNLQIDSVKVPWPRPTGVEYDIEIDTETLCLTDPTPLNCSVQRQTOHAVEGDCDIHVLKQDGQFSVLCFKCDSIPSAEDVRKLCPCDCPLALLNDNVRHVEAVEALATFNASENGSRLQVLEISQAFVFLPVSVESVEFAVAATDCAKEVDPTEKCNLLEAKQYGFCKGSIQKALGGEDVVRTCTLFQTQPIQOPQPDGA

EAEAPSAVPDAAGPTPSAGPPVAVSVVGPSVAVPLHRAHYDLRHTFSGVASVESSGEAHSV

GKTPIVGQPSIPGVPRLCIPGRIRYFKL (359 amino acids at 38 kDa).

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Figure S2 (A) The mRNA (accession number NM_001135242) of the coding region of NDRG1 (exon 2–16) and (B) translated protein product using ensemble (http://asia.ensembl.org/index.html) For (B), black font, alternating exons; blue font, alternating exons; red font, residue overlap splice site.

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