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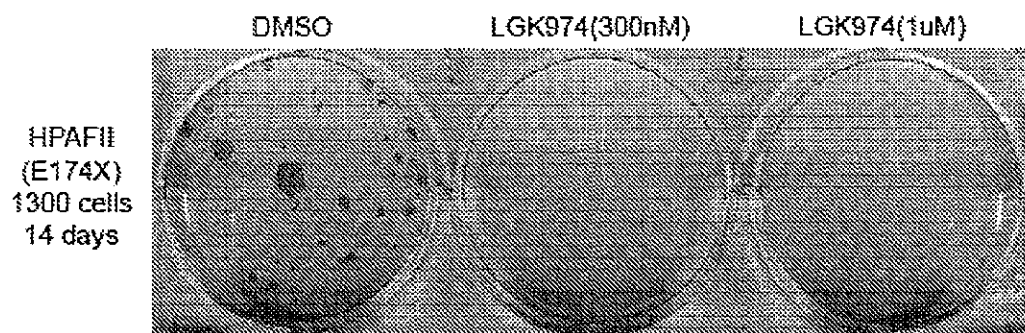


FIG. 1(a)

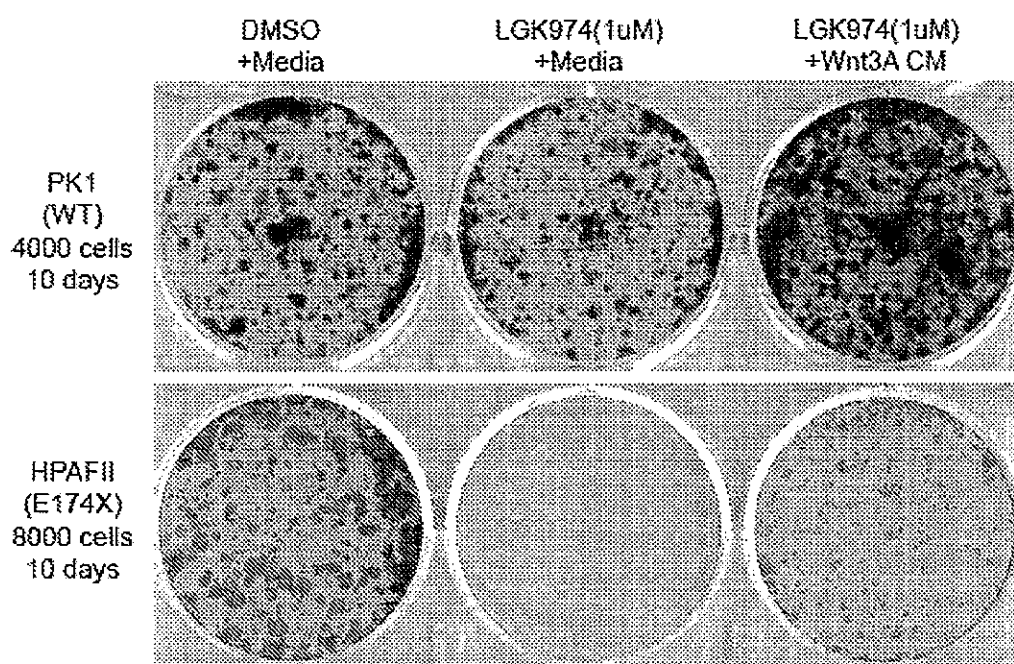


FIG. 1(b)

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hRNF43      ---MSGGHQLQLAALWPWLLMATLQAGFGRT-----GLVLAAAVESERSAEQKAI
mRNF43      ---MSGGHQLQLAALWPWLLMATLHAGFGHT-----GRVLAAAVESERSAEQKAV
hZNRf3      MRPRSGGRPGATGRRRRRLRRRPRGLRCSRLPPPPPLPLLGLLLAAAGPGAARAKETAF
mZNRf3      MRPRSGGRPGAPGRRRRRLRRGPR---GRRLLPPPPPLPLLGLLLAAAGPGAARAKETAF
              ***:      .      *      .      :      *      :****      .      *:.*.

hRNF43      IRVIPLKMDPTG---KLNLTLEGVFAGVAEITPAEGKLMQSHPLYLCNASDD-DNLEPGF
mRNF43      IRVIPLKMDPTG---KLNLTLEGVFAGVAEITPAEGKLMQSHPLYLCNASDD-DNLEPGF
hZNRf3      VEVVLFESSPSGDYTTYTTGLTGFRFSRAGATLSAEGEIVQMHPGLGCNNNDEEDLYEYGW
mZNRf3      VEVVLFESSPSGDYTTHTTGLTGFRFSRAGAMLSAEGEIVQMHPGLGCNNNDEEDLYEYGW
              .*: .: .*:      .      * * *: .      .****:.* * * * * .*: * * *:

hRNF43      ISIVKLESPRRAPRPCLSLASKARMAGERGASAVLFDITEDRAAAEQQLQ--PLGLTWPV
mRNF43      ISIVKLESPRRAPRPCLSLASKARMAGERGANAVLFDITEDRSAAEQQLQ--PLGLTKPV
hZNRf3      VGVVKLEQPELDPKPCLTVLGKAKRAVQRGATAVIFDVSENPEAIDQLNQGSSEDPKRPV
mZNRf3      VGVVKLEQPELDPKPCLTVLGKAKRAVQRGATAVIFDVSENPEAIDQLNQGSSEDPKRPV
              .:****.*.      *:****: .*: * :****.*:****: * :****.*      . **

hRNF43      VLIWGNDAEKLMEFVYKQKAHVRIELK---EPPAWPDYDVWILMTVVGTFIVIIASVL
mRNF43      VLIWGSDAAKLMEFVYKNRKAYVWIELK---EPPAGANYDVWILLTVVGTVFVIIASVL
hZNRf3      VYVKGADAIKLMNIVNKQKVARARIQHRPPRPQTEYFDMGIFLAFFVVSVLVCLILLVKI
mZNRf3      VYVKGADAIKLMNIVNKQKVARARIQHLP RPQTEYFDMGIFLAFFVVSVLVCLILLVKI
              * : * * * ****:* *: * . *:      :*.      . : : : * * :. : * * :

hRNF43      RIRCRPHSRPDPLQQRATAWAISQLATRRYQASCRQARGEWPDSGSSCSAPVCAICLEE
mRNF43      RIRCRPHSRPDPLQQRATAWAISQLATRRYQAGCRRARAEPWDSGSSCSSTPVCAICLEE
hZNRf3      KLKQRRSQNSMNRRLAVQALEKMETRKFNSKSKGRREGSCGALDTLS-SSSTSDCAICLEK
mZNRf3      KLKQRRSQNSMNRRLAVQALEKMETRKFNSKSKGRREGSCGALDTLS-SGSTSDCAICLEK
              : : *      .      : *      : :      .      .      .      *..      *: * ..*.. *****:

hRNF43      FSEGQELRVISCLHEFHRCVDPWLHQHRTCPCLCMFNITEGDSFSQSLGPSRSYQEPGRR
mRNF43      FSEGQELRVISCLHEFHRTCVDPWLHQHRTCPCLCMFNIVEGDSFSQAPAASPSYQEPGRR
hZNRf3      YIDGEEELRVIPCTHRFHRKCVDPWLLQHHTCPHCRHNIIEQKGNPSAVCVETSNLSRGRQ
mZNRf3      YIDGEEELRVIPCTHRFHRKCVDPWLLQHHTCPHCRHNIIEQKGNPGAVCVETSNLTRGRQ
              : :*:****.* *.*.*.***** **:* * * . * * * . . :      . *      **:

hRNF43      LHLIRQHPGHAHYHLPAAYLLGPSRSARPPRPFPFLPSQEPG-----
mRNF43      LHLIRQHPGHAHYHLPSAYLLGPSRTSVARTPRPRPFLPSQEPS-----
hZNRf3      QRVTLPVHYPGRVHRTNAIPAYPTRTSMDSHGPNVTLTMDRHEQSLYSPQTPAYIRSY
mZNRf3      PRVTLPVHYPGRVHRTNAIPAYPTRTSMDSHGPNVTLTMDRHEQONLYSPQTPTYVRGY
              : :      . : * . *      *:****:      . * ..*.. :. .

hRNF43      -----MGPRHHRFPRAAHPRAPGEQQRLAGAQHPYAQCWGWL
mRNF43      -----MGSRHQRLPRTSHLRAPEEQHSLAVSPHPYAQCWGWL
hZNRf3      PPLHLDHSLAAHRCGLEHRAYSAPHPFRPKLSGRSFSKAACFSQYETMYQHYYFQGLSY
mZNRf3      PPLHLDHTLAPHRCLEHRAYSAPHPFRPKFSRSFSKAACFSQYETMYQHYYFQGLSY
              *: :. . :. :*.      . * :      * * * * .

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FIG. 2

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hRNF43      SHLQSTSQHPAACPVPLRRARPP-----DSSGSGESYCTER
mRNF43      NRLRCTSQHPAACPVALRRARPH-----ESSGSGESYCTER
hZNRf3      PEQEGQSPPSLAPRGPARAFPPSGSGSLLFPTVVEVAPPSHLESGSTSSFCYHGHR SVC
mZNRf3      PEQEGQTIPSVTPRGQSRAFPSPGASSLLFPTMVHVAPPTHVESGSTSSFCYHGHR SVC
              . . : . : * * . * . . . :

hRNF43      SGYLADGPASDSS----SGPCHGSSSDSVVNCTDISLQGVHGSSSTFCSSLSSDFDPLVY
mRNF43      SGYLADGPASDSS----SGPCHGSSSDSVVNCTDVSLQGIHGSSSTFRSSLSSDFDPLVY
hZNRf3      SGYLADCPGSDSSSSSSSGQCHCSSSDSVVDCTEVSNQGVYGCSTFRSSLSSDYDPFIY
mZNRf3      SGYLADCPGSDSSSNSS-GQCRCSSSDSVVDCTEVSNQGVYGCSTFRSSLSSDYDPFIY
              ***** * . ***** * * : ***** : * : * * : * . * . ***** : * : *

hRNF43      CSP-----KGD PQRVDMQPSVTSRPRSLDSVVP TGETQV
mRNF43      CSP-----EGDLQGGKGIQPSVTSRPRSLDSVVP RGETQV
hZNRf3      RSRSPCRASEAGGSGSSGRGPALCFEGSPPEELPAVHSHGAGRGEPPGPASPSGDQVS
mZNRf3      RSR-----GPAVHLEGSPPEELPAGHSQSAGRGEPPWLG PASPSGDQLS
              * : . . . . * * :

hRNF43      SSHVHYHRHRHHYKKRFQWHGRKPGPETGVPQSRPPIPR TQP-----QPEPP
mRNF43      SSHIH YHRHRHHYKKRFQWHGRKPGPETGI PQSMPAASHTQL-----EPSLP
hZNRf3      TCSLEMNYSSNSSLEHRGPNSSTSEVGLEASPGAAPDLRRTWKGGHELPSCACCEPQPS
mZNRf3      TCSLEMNYSSNSSLEPRGPNSSTSEVGLEVSPGAALDLRRTWKGGPEGPSCACCFEPQPF
              : . : . : : : . * : : * : * .

hRNF43      SPDQQVTRSNSAAPSGRLSNPQCPRALPEPAPGPVDASSICPST----SSLFNLQKSSLS
mRNF43      D---QQLITPNPTASSMLPNPQRPRALTEPAPGLAEASSPSPSPKPNPSGLLNLQKSSLT
hZNRf3      P-AGPSAGAAGSSTLFLGPHLYEGSGPAGGEPQSGSSQGLYLHPDHLPRTDGVKYEGLP
mZNRf3      PPGSGIETSAGGSSLFLGPRLLDCNPSPGEPQLGSSQGLYLHSDHYPRTDGVKYEGLP
              : . : . . . * . . . . : . : . * .

hRNF43      ARHPQRKRGGPSEPTPGSRPQDATVHPACQIFPHYTPSVAYPWSPEAHPLICGPPGLDK
mRNF43      VRHPRHRKRGGPSEPLPTSLPPDLTVHTACPVFPHYSPRLAYPWPPEVHPLMFRPPGPDR
hZNRf3      CCFYEEKQVARGGGGSGCYTEDYSVSVQYTLTEEP PP GCYPGARDLSQRIP IIPEDVDC
mZNRf3      CCFYEEKQVAHSAGRGNGCYTEDYSVSVQYTLTEEP PP SCYAGPRDLSQRIP IIPEDVDC
              . . * : . . . * * : . . * : : * . *

hRNF43      RLLPETPGPCYSNSQPVLCLTPRQPLEPHPPGEGPSEWSSDTAEGRPCPYPHCQVLSAQ
mRNF43      RLLHEVPGPCYSSSQPVWLYLNPCLPLGCLPGEGH SKWTFDSPEGRRCPYSHCQVLP AQ
hZNRf3      DLGLPSDCQGTHSLGSGGTRGPDTPRPHRGLGATREEERALCCQARALLRPGCPPEEAG
mZNRf3      DLGLPQDCHGMHNHSPWGGALSLDVPRLHWSLGTREEE--QAPCYQAEVQPGCSPEEAG
              * . . * * . : : . * *

hRNF43      PGSEEELEELCEQAV-----
mRNF43      PGSEEELEELCEQAV-----
hZNRf3      AVRANFPSALQDTQESSTTATEAAGPRSHSADSSSPGA
mZNRf3      ASRASLSSAPQDTQESHALAAEASGPGSGPGIGTGA--

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FIG. 2 (CONTINUED)

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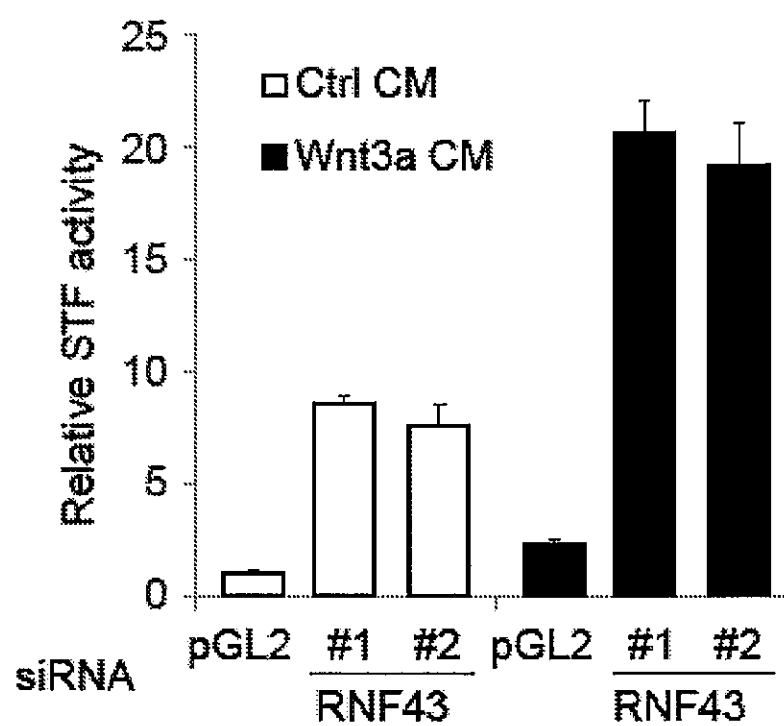


FIG. 3(a)

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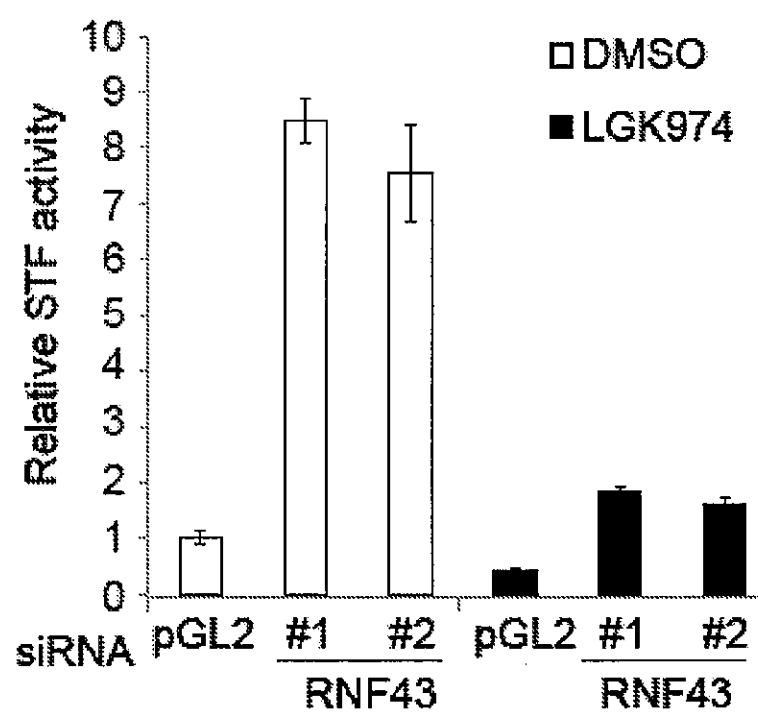


FIG. 3(b)

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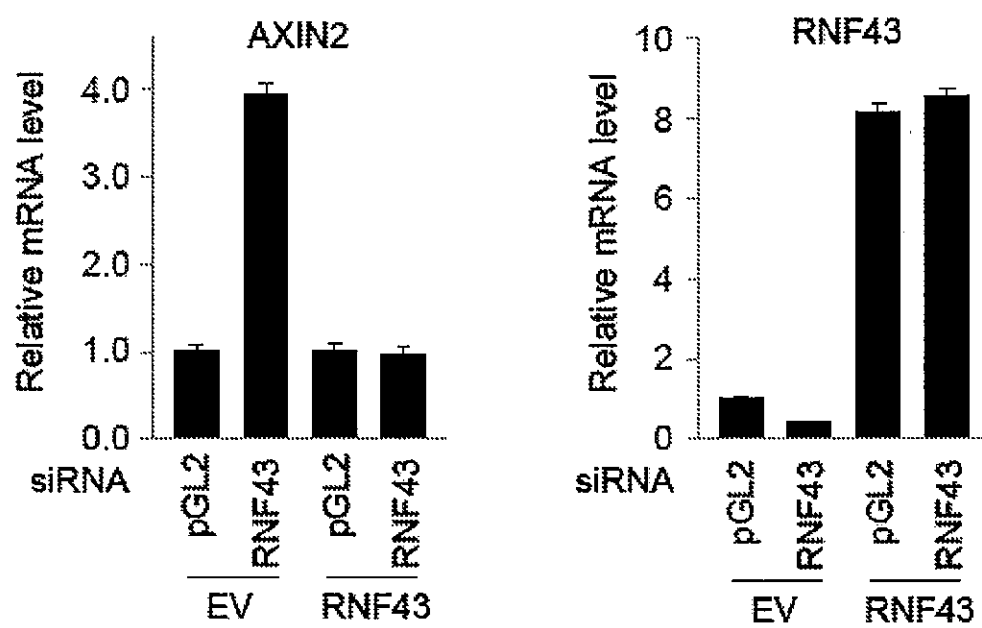


FIG. 3(c)

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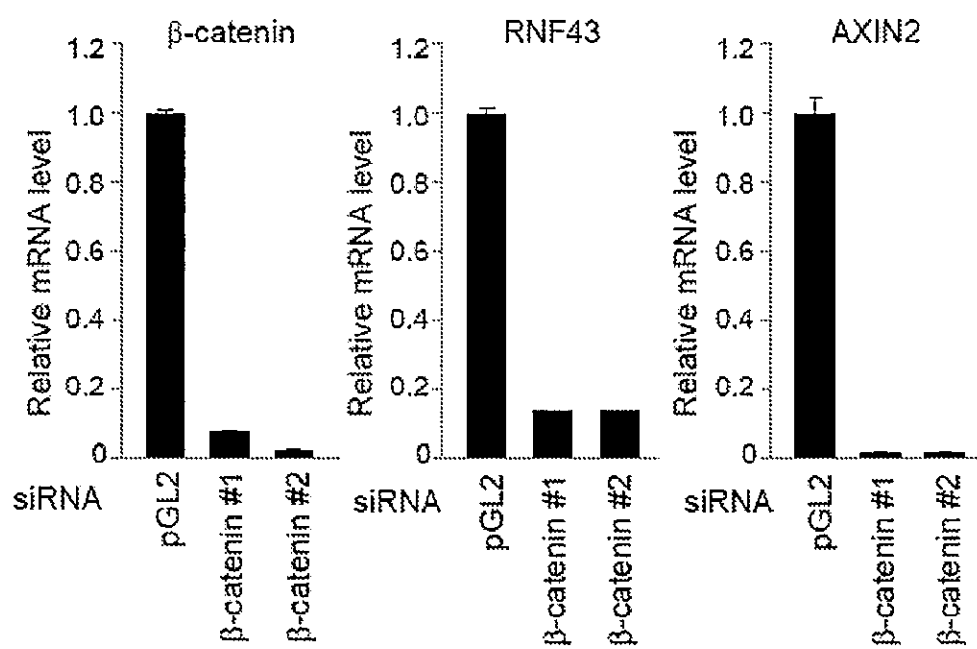


FIG. 4(a)

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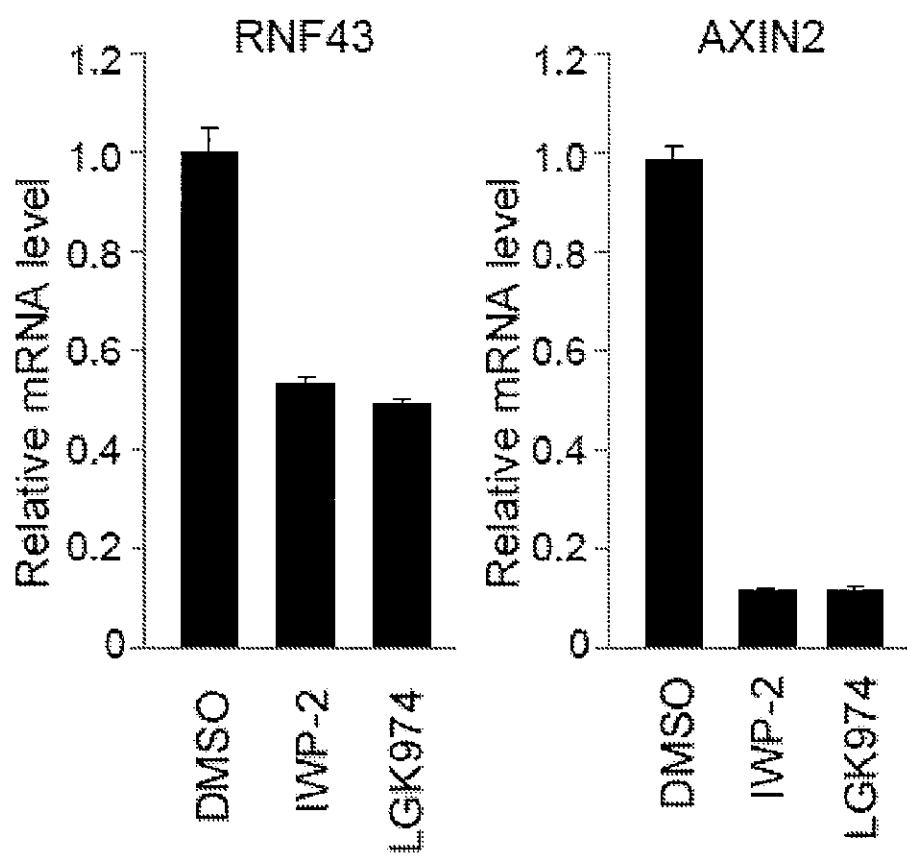


FIG. 4(b)