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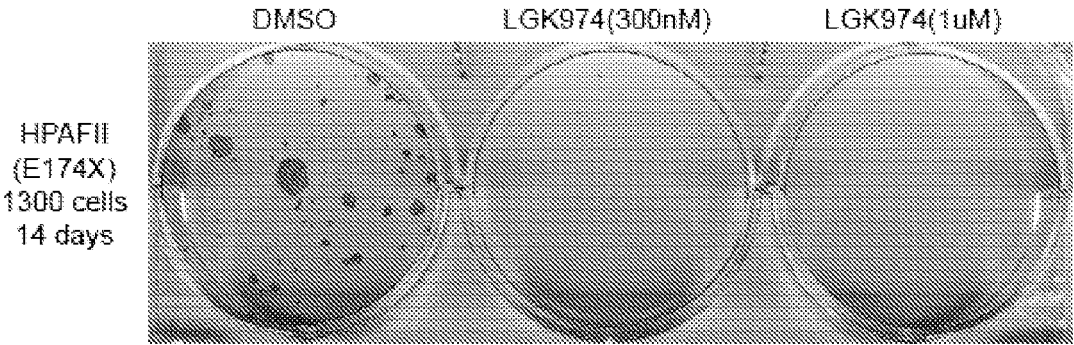


FIG. 1(a)

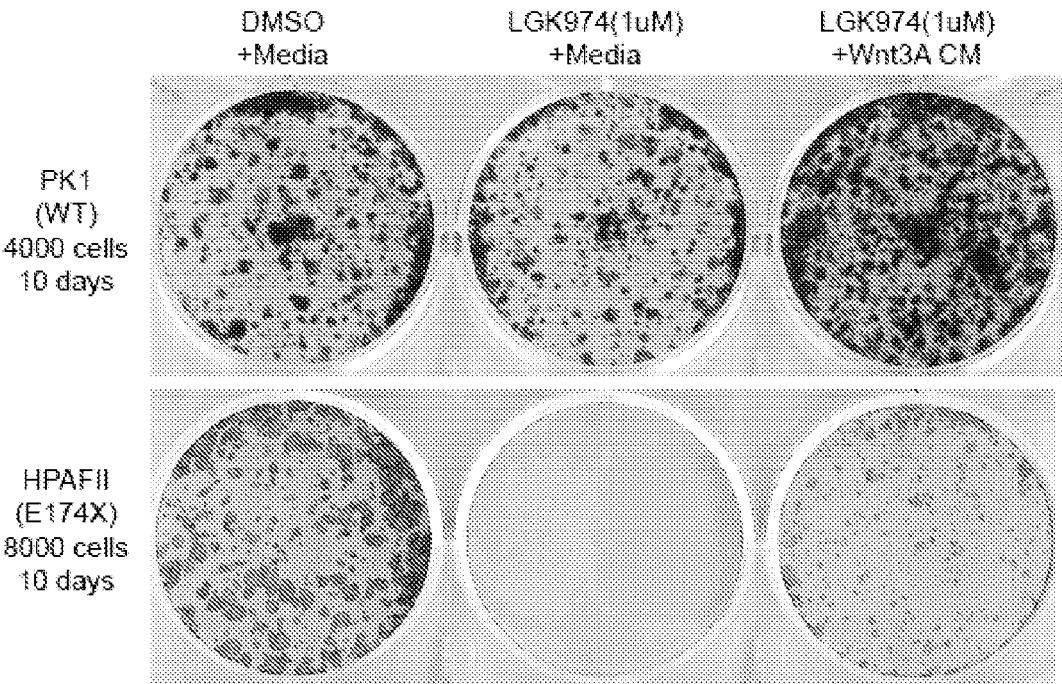


FIG. 1(b)

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

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

hRNF43      ISIVKLESPRRAPRCLSLASKARMAGERGASAVLFDITEDRAAAEQLOQ--PLGLTWPV
mRNF43      ISIVKLESPRRAPRCLSLASKARMAGERGANAVLFDITEDRSAAEQLOQ--PLGLTKPV
hZNRf3      VGVVKLEQPELDPKCLTVLGKAKRAVQRGATAVIFDVSENPEAIDQLNQGSSEDPKRPV
mZNRf3      VGVVKLEQPELDPKCLTVLGKAKRAVQRGATAVIFDVSENPEAIDQLNQGSSEDPKRPV
              :.:****.*.      *:****: .*: * :****.****.***: * :****.*      *. **

hRNF43      VLIWGNDAEKLMEFVYKNQKAHVRIELK---EPPAWPDYDVWILMTVVGTFVFIILASVL
mRNF43      VLIWGSDAAKLMEFVYKNRKAYVWIELK---EPPAGANYDVWILLTVVGTFVFIILASVL
hZNRf3      VYVGADAIKLMNIVNKQKVARARIQHRPQPQTEYFDMGIFLAFFVVVSLVCLILLVKI
mZNRf3      VYVGADAIKLMNIVNKQKVARARIQHLPPQPQTEYFDMGIFLAFFVVVSLVCLILLVKI
              * : * ** ****:.* *: : * . *:      :*.      : :.: : ** :.. :** :

hRNF43      RIRCRPHSRPDPLQORTAWAISQLATRRYQASCRQARGEWPDSGSSCSSAPVCAICLEE
mRNF43      RIRCRPHSRPDPLQORTARAIQLATRRYQAGCRRARAEPWDSGSSCSSTPVCAICLEE
hZNRf3      KLKQRRSQNSMNRLAVQALEKMETRFNSKSKGRREGSCGALDTLS-SSSTSDCAICLEK
mZNRf3      KLKQRRSQNSMNRLAVQALEKMETRFNSKSKGRREGSCGALDTLS-SGSTSDCAICLEK
              :.: * :. : * :. :.      .      .      *..      *: * ..*:.. *****:

hRNF43      FSEGQELRVISCLHEFHRNCVDPWLHQHRTCPLCMFNITEGDSFSQSLGPSRSYQEPGRR
mRNF43      FSEGQELRVISCLHEFHRNCVDPWLQYHRTCPLCMFNIVEGDSFSQAPASPSYQEPGRR
hZNRf3      YIDGEEELRVIPCTHRFHRKCVDPWLLQHHTCPCRHNIIEQKGNPSAVCVETSNLSRGRQ
mZNRf3      YIDGEEELRVIPCTHRFHRKCVDPWLLQHHTCPCRHNIIEQKGNPGAVCVETSNLTRGRQ
              : :*:*****.* *.****.***** **:*** * .** * .. : . * ** :

hRNF43      LHLIRQHYPGHAHYHLPAAYLLGPSRSAVARPPRPGPFLPSQEPG-----
mRNF43      LHLIRQHYPGHAHYHLPSAYLLGPSRTSVARTPRPRPFLPSQEPS-----
hZNRf3      QRVTLVPVHYPGRVHRTNAIPAYPTRTSMDSHGPNVTLTMDRHGEQSLYSPQTPAYIRSY
mZNRf3      PRVTLVPVHYPGRVHRTNAIPAYPTRTSMDSHGPNVTLTMDRHGEQNLVSPQTPTYVRGY
              : :      .: * . *      *:***:      .* :.*: ..

hRNF43      -----MGPRHHRFPRAAHPRAPGEQQRLAGAQHPYAQGWGL
mRNF43      -----MGSRHQRLPRTSHLRAPEEQQHLLAVSPHPYAQGWGL
hZNRf3      PPLHLDHSLAAHRCGLEHRAVSPAHFRRPKLSGRSFSKAACFSQYETMYQHYYFQGLSY
mZNRf3      PPLHLDHTLAPHRCSLEHRAVSPAHFRRPKFSSRSFSKAACFSQYETMYQHYYFQGLSY
              *: :.. :. :*. .* : * * * .

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FIG. 2

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hRNF43      SHLQSTSQHPAACPVPLRRARPP-----DSSGSGESYCTER
mRNF43      NRLRCTSQHPAACPVALLRRARPH-----ESSGSGESYCTER
hZNRf3      PEQEGQSPPSLAPRGPARAFPPSGSGSLLFPTVVHVAPPShLESgSTSSfSCYHGHRsVC
mZNRf3      PEQEGQTIPSVTPRGQsRAfPPSGASSLLFPTMVHVAPPThVESgSTSSfSCYHGHRsVC
              . . : . : * * . * . . . : :

hRNF43      SGYLADGPASDSS----SGPCHGSSSDSVVNCTDISLQGVHGSSSTfCSSLSSDFDPLVY
mRNF43      SGYLADGPASDSS----SGPCHGSSSDSVVNCTDVSLQGIHGSSSTfRSSLSSDFDPLVY
hZNRf3      SGYLADCPGSDSSSSSSSGQCHCSSSDSVVDCTEVSNQGVYGSCSTfRSSLSSDYDPFIY
mZNRf3      SGYLADCPGSDSSSNSS-GQCRCSSSDSVVDCTEVSNQGVYGSCSTfRSSLSSDYDPFIY
              ***** *.***** * *: *****:***:* *:***.*** *****:***:*

hRNF43      CSP-----KGDPQRVDMQPSVTSRPRSLDSVVPTGETQV
mRNF43      CSP-----EGDLQGKGIPQSVTSRPRSLDSVVPRGETQV
hZNRf3      RSRSPCRASEAGGSGSSGRGPALCFEGSPPEELPAVHSHGAGRGEWPWPFPASPSGDQVS
mZNRf3      RSR-----GPAVHLEGSPPEELPAGHSQsAGRGEWPWLPFPASPSGDQLS
              * : . . . . * *:

hRNF43      SSHVHYHRHRHHHYKKRFQWHGRKPGPETGVPQSRPPIPRtQP-----QPEPP
mRNF43      SSHIHYHRHRHHHYKRQFQWHGRKPGPETGIPQsMPAASHTQL-----EPSLP
hZNRf3      TCSLEMNYSSNSSLEHRGPNSSSTSEVGLEASPGAAPDLRRTWKGGHELPSACCCEPQPS
mZNRf3      TCSLEMNYSSNSSLEPRGPNSSSTSEVGLEVSPGAALDLRRTWKGGPEGPSACCCEPQPF
              :. :. : : : : . * : : * : * .

hRNF43      SPDQQVTRSNSAAPSGRLSNPQCPRALPEPAPGPVDASSICPST---SSLFNLQKSSLS
mRNF43      D---QQLITPNPTASSMLPNPQRPRALTEPAPGLAEASSPSPSPKPNPSGLNLQKSSLT
hZNRf3      P-AGPSAGAAGSSSTLFLGPHLYEGSGPAGGEPQSGSSQGLYGLHPDHLPRTDGVKYEGLP
mZNRf3      PPGSGIETSAGGSSLFLGPRLLLEDcNPSPGEPQLGSSQGLYGLHSDHYPRTDGVKYEGLP
              : . :. . . * . :. . . . :. :. :. * .

hRNF43      ARHPQRKRRGGPSEPTPGSRPQDATVHPACQIFPHYTPSVAYPWSPEAHPLICGPPGLDK
mRNF43      VRHPhRKRRGGPSEPLPTSLLPDLTVHTACPVFPHYSPRLAYPWPPEVHPLMFRPPGPDR
hZNRf3      CCFYEEKQVARGGGGSGCYTEDYSVSQYTLTEEPpPGCYPGARDLSQRIPiIPEDVDC
mZNRf3      CCFYEEKQVAHSAGRGNGCYTEDYSVSQYTLTEEPpPSCYAGPRDLSQRIPiIPEDVDC
              . . .*: . . . * :* : . . * : : * . *

hRNF43      RLLPETPGPCYSNSQPWVLCLTPRQPLEPHPPGEGPSEWSSDTAEGRPCPYPHCQVLSAQ
mRNF43      RLLHEVPGPCYSSSQPVWLYLNPcQLGfCLPGEGHsKWTfDSPEGRRCPYSHCQVLPaQ
hZNRf3      DLGLPSDCQGTHSLGSwGGTRGPDTPrPHRGLGATREEEERALCCQARALLRPGCpPEEAG
mZNRf3      DLGLPQDCHGMHNHSWPWGALSLDVPrLHWSLGTTREEE--QAPCYQAEVQPGCSPEEAG
              * . . * * . : : . * *

hRNF43      PGSEEELEELCEQAV-----
mRNF43      PGSEEELEELCEQAV-----
hZNRf3      AVRANFPsALQDTQESSTtATEAAGPRSHsADSSSPGA
mZNRf3      ASRASLSSAPQDTQESHALAAEASGPGSgPGIGTGA--

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FIG. 2 (CONTINUED)

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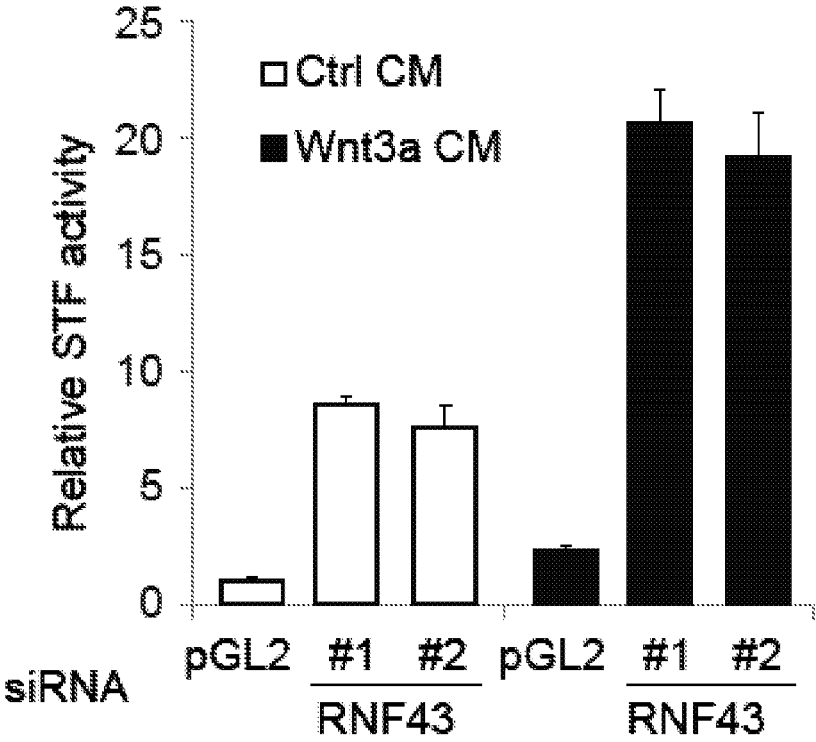


FIG. 3(a)

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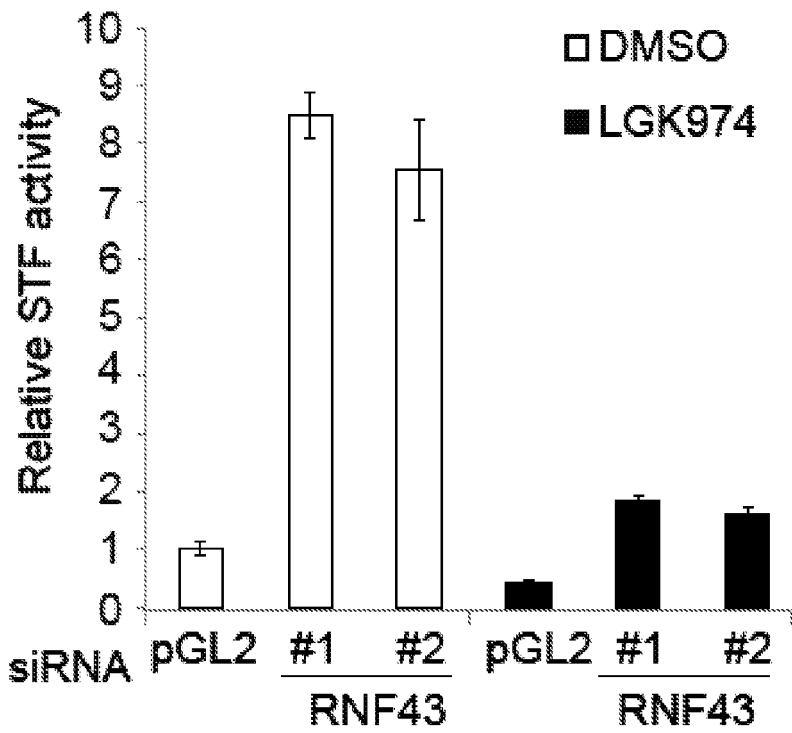


FIG. 3(b)

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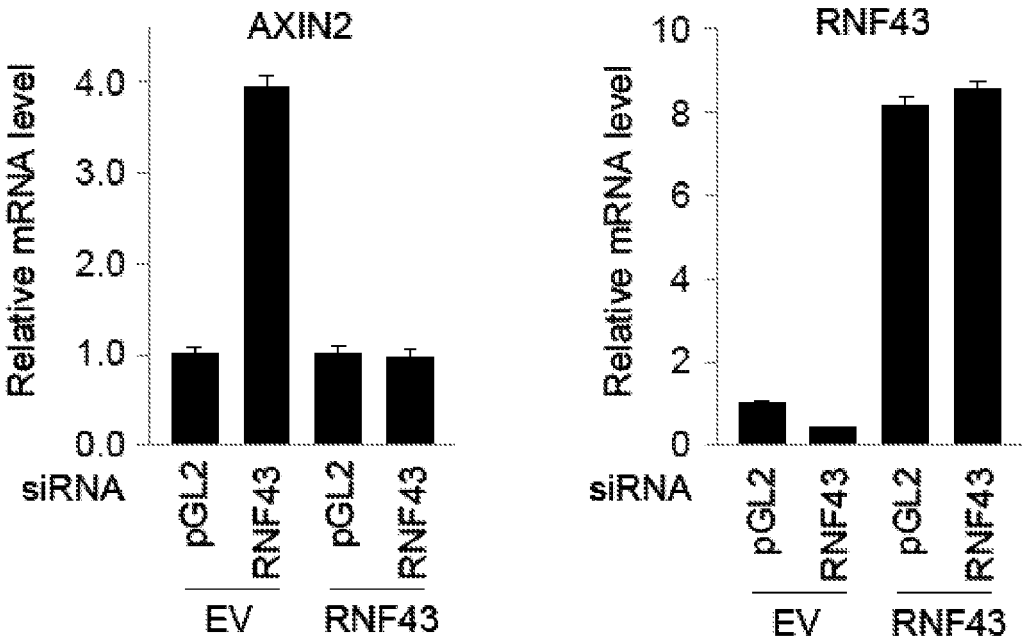


FIG. 3(c)

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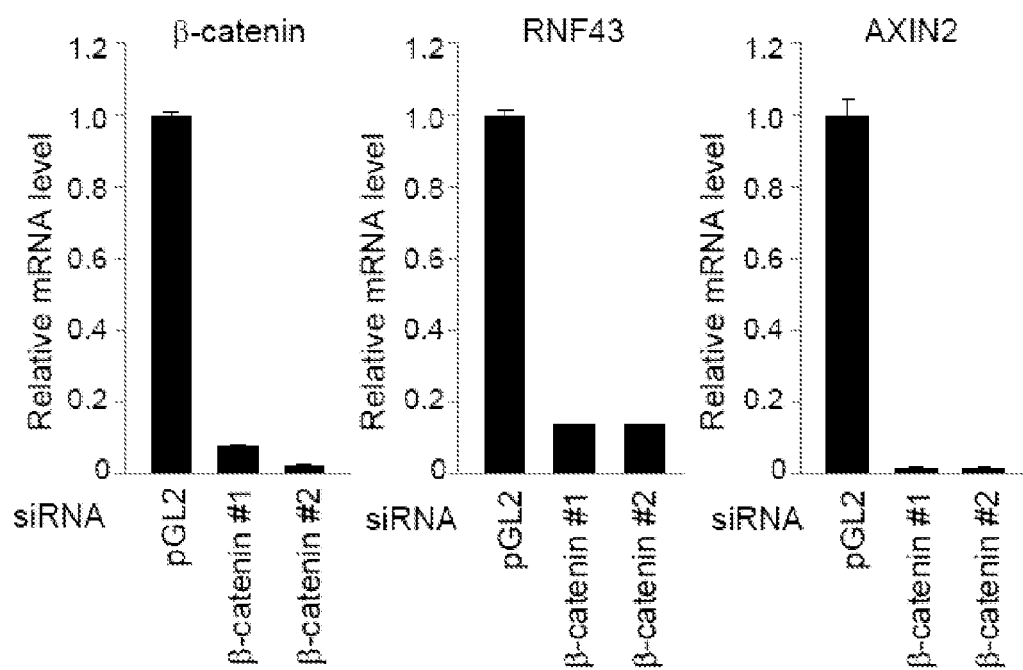


FIG. 4(a)

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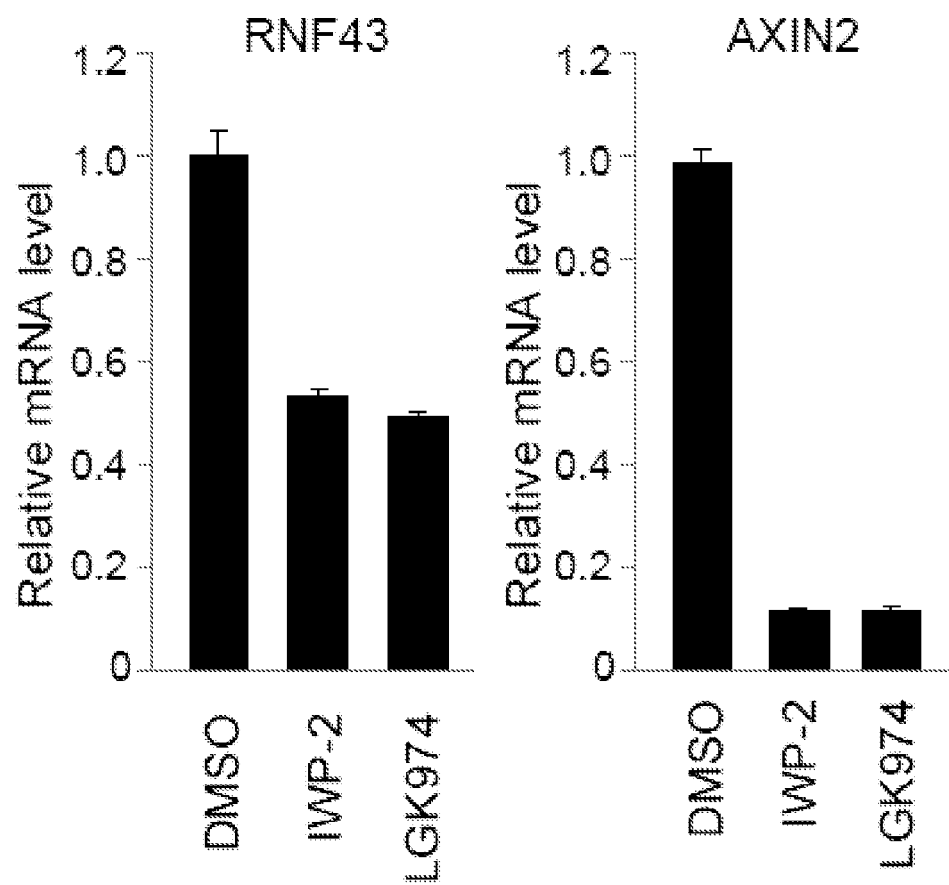


FIG. 4(b)