

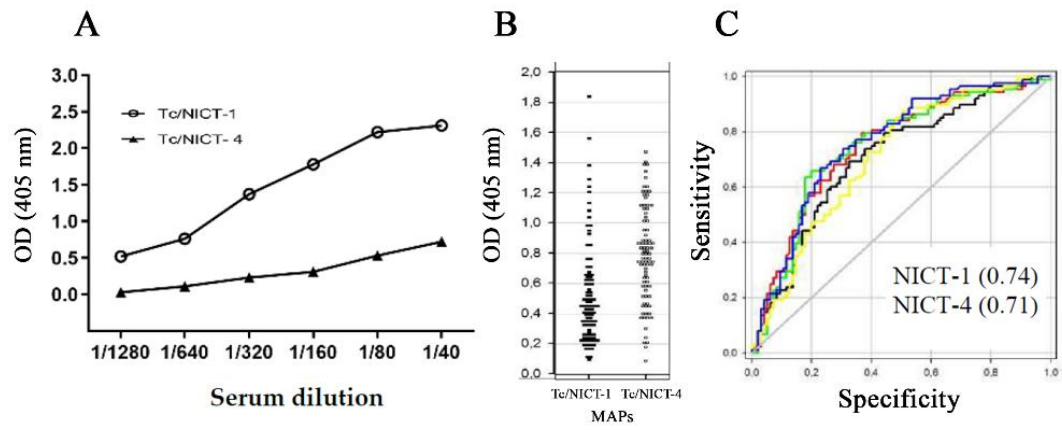
Supplementary Figure S1:

F1	MLRRRMVCMGGCPR
F2	MVCMGGCPRGPTEW
F3	GCPRGTEWTSIFV
F4	PTEWTSIFVLWIAA
F5	SIFVLWIAAWLMT
F6	WIAAWLMTCGATAE
F7	LMTCGATAERGFSG
F8	ATAERGFSGDIPPA
F9	GFSGDIPPAHDA
F10	IPPAPHDAAYAYF
F11	HDAAYAYFRNYPI
F12	AAVFRNYPIVRPCI
F13	NYPIVRPCIMKAVF
F14	RPCIMKAVFMAVKS
F15	KAVFMAVKSDDQSN
F16	AVKSDDQSNNSVAY
F17	DQSNNSVAYRGC
F18	SVAYRGC
F19	GC
F20	DN
F21	PH
F22	LL
F23	EVA
F24	SMD
G1	ED
G2	SL
G3	IR
G4	IP
G5	FSS
G6	GL
G7	TR
G8	DY
G9	GR
G10	VK
G11	QY
G12	CFL
G13	VQ
G14	AV
G15	HT
G16	MPP
G17	AV
G18	DD
G19	CR
G20	DR
G21	EEL
G22	PRE
G23	SV
G24	VIL

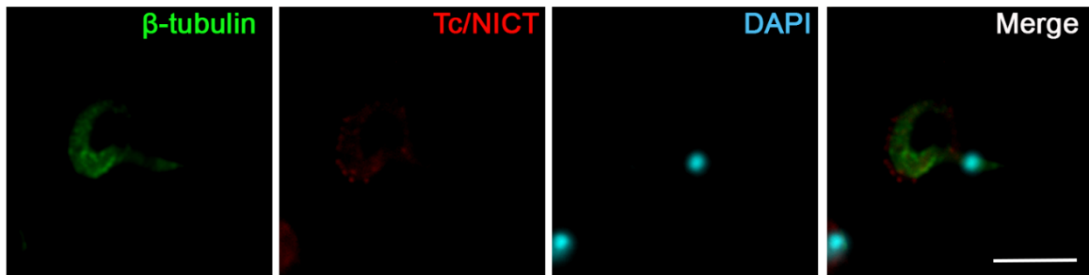
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H2	SSSGPANS
H3	ANS
H4	TAL
H5	AAG
H6	RI
H7	EG
H8	PQ
H9	ETR
H10	MS
H11	LL
H12	TR
H13	CLE
H14	SP
H15	PL
H16	TV
H17	TAD
H18	WE
H19	TS
H20	EKK
H21	KGA
H22	LL
H23	TAV
H24	VQ
I1	PG
I2	PAS
I3	VAT
I4	VL
I5	RR
I6	DD
I7	VY
I8	FP
I9	VGS
I10	SAR
I11	SD
I12	LEC
I13	AG
I14	CT
I15	YKE
I16	NFT
I17	DF
I18	DT
I19	VD
I20	YQ
I21	LY
I22	DS
I23	KT
I24	QQ

J1	ELEMEKSGVRR
J2	KSGVRR
J3	RAS
J4	RL
J5	PIT
J6	LD
J7	AV
J8	EKV
J9	TL
J10	NT
J11	NP
J12	TV
J13	TA
J14	AL
J15	SV
J16	ADV
J17	RV
J18	PT
J19	AE
J20	VTS
J21	RSL
J22	QL
J23	FT
J24	QCK
K1	SAP
K2	VA
K3	AP
K4	VG
K5	NS
K6	DT
K7	IE
K8	HR
K9	TD
K10	SPA
K11	KSL
K12	PH
K13	GAT
K14	QDR
K15	MRL
K16	DS
K17	LHV
K18	FWR
K19	IG
K20	TM
K21	DT
K22	IF
K23	SIT
K24	TIS

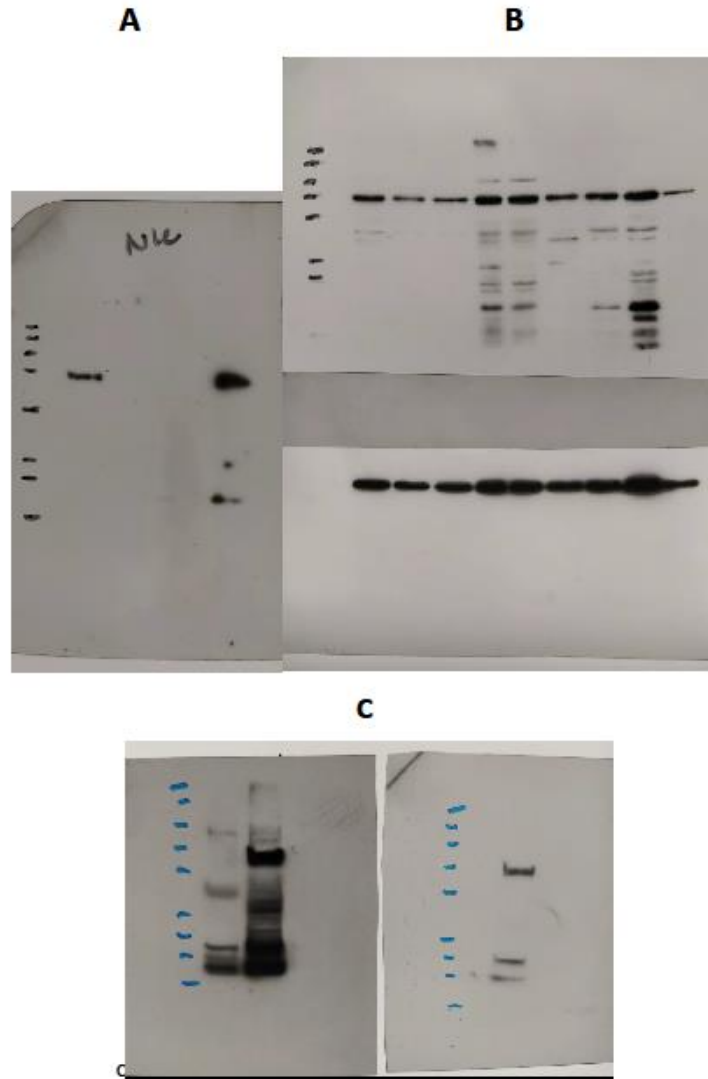
Supplementary Figure S2



Supplementary Figure S3:



Supplementary Figure S4:



Supplementary Figure S5:

MLRRRMVCMGGCPRGPTEWTSIFVLWIAAWLMTGATAERGFSGDIPPAPHDAAYAAAYFRNYPIVRPCIM
 KAVFMAVKSDDQSNNVAVYRGCSIAADNAVAPHGLLLLHATEVAQASMDGCEDNAPSLQDIIRGLSIPDTV
 FSSGIGLVLSTRDKDDYEEGGRENVRKNTQYDMTCFLAAVQHYNAVANKHTQGLMPPITAVAFSDDNRC
 CRFSGDRRSGEELLLPREVRSVYDFVILYFPSAATSSSGPANSDWTALMNAAGFNRIHWAEGRRYPQNVL
 ETRNGMSLAELLSSPTRVRSLEGSPSCVPLSGWTVWTSTADMRWEWNETSLNFEKKTRKGAVALLVAS
 TAVSLVQDATPGADCPASAI VATLSVLEALRRVGGDDSRDYYAFFFPGEHVGSVGSARFISDATMLECVH
 AGLSNCTALAYKEKLNFTTVDFNAIDTFLVVDQVAYQDAPLYYHVDSRVGKTGSAQQQKAELEMEKSGVR
 RASTTRLPYSPITLLDLLPAVMAGEKVFLTLTRYNTTFANPDVFTVVDKTAEHSALRPASVAEAADVML
 RVLLPPTQNA AETPPVTSVNRSLVEQLWGCFTENLQCKFLSAPNDVAEFMAPDYSVGE MANSRITDTQAA
 IEAALHRIGWTDVARSPAVPKSLRIPHGDWGATWEQDRDWMRLHNDSRYELHVMSFWRGNIGARTMVGSD
 TVALIFLMLSITATISLTLCIHVCVRK

Position	Residue	Score
84	NNS	1.095587
329	NET	0.982870
425	NCT	0.838883
436	NFT	1.117064
526	NTT	1.157668
580	NRS	0.724098
675	NDS	0.815644

