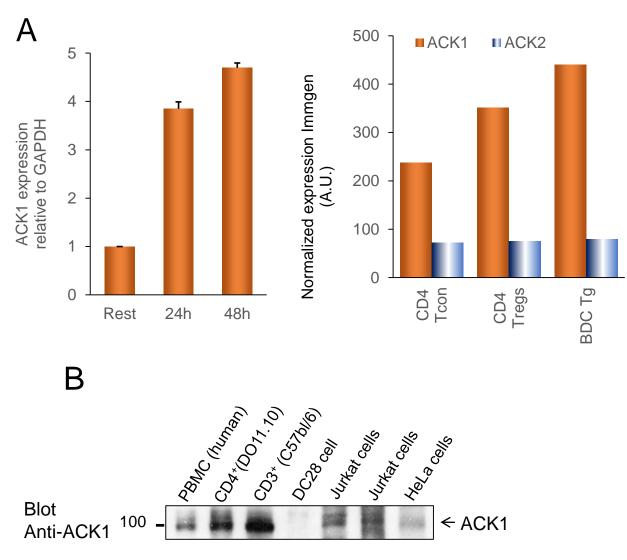
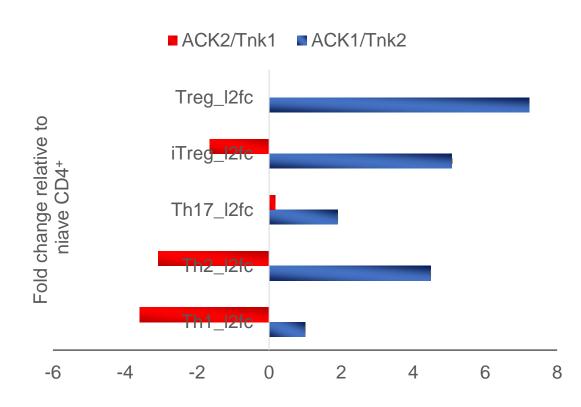
Supplementary Fig S1. ACK1 and ACK2 expression in T-cells (A) Left panel, quantitative RT-PCR measurement of ACK1 expression in CD4⁺ primary T-cells upon anti-CD3 stimulation in primary T-cells. Middle panel, ACK1 (*red*) and ACK2 (*silver*) expression from Immgen array expression database (CD4 T conventional (Tcon), T Regulatory (Treg) and transgenic pancreatic-infiltrating T-cells (BDC)). Right panel, RNA-seq data from expression array (<u>http://www.th-express.org/#browse</u>), showing fold change in RNA level as compared to naïve CD4⁺ cells (<u>40</u>). (B) Western blot showing ACK1 protein expression in various cell types. (C) Sequence alignment of human and mouse ACK1 (Tnk2) proteins. (D) Antibody specificity controls for confocal microscopy experiments shown in figure 3.

Supplementary Figure S1



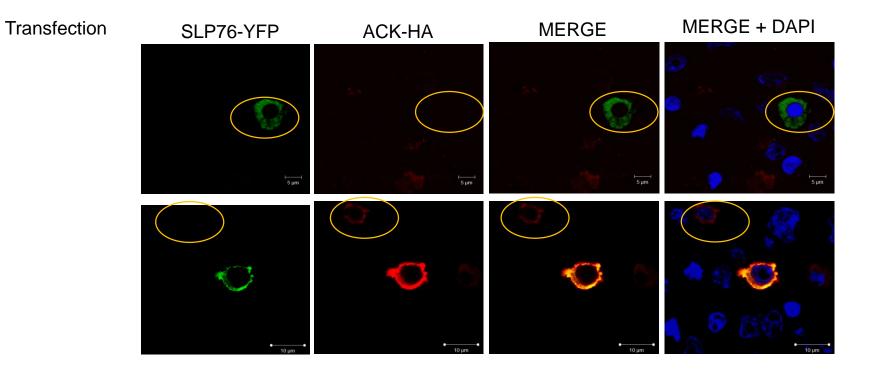


		TOO
ACK1 MOUSE	(1)	
ACK1 HUMAN	(1)	
Consensus		MQPEEGTGWLLELLSEVQLQQYFLRLRDDLNITRLSHFEYVKNEDLEKIGMGRPGQRRLWEAVKRRKALCKRKSWMSKVFSGKRLEAEFP HSQSTFRK
		101 200
ACK1 MOUSE	(101)	PSP <mark>T</mark> PG <mark>SLP</mark> GEG <mark>T</mark> LQSLTCLIGEKDLRLLEKLGDGSFGVVRRGEWDAP <mark>A</mark> GKTVSVAVKCLKPDVLSQPEAMDDFIREVNAMHSLDHRNLIRLYGVVLT <mark>L</mark> P
ACK1_HUMAN	(101)	
Consensus	(101)	
		201 300
ACK1_MOUSE	(201)	
ACK1_HUMAN	(201)	
Consensus	(201)	MKMVTELAPLGSLLDRLRKHQGHFLLGTLSRYAVQVAEGMAYLESKRFIHRDLAARNLLLATRDLVKIGDFGLMRALPQNDDHYVMQEHRKVPFAWCAPE
AGK1 MOUGD	(201)	
ACK1_MOUSE ACK1 HUMAN	(301)	SLKTRTFSHASDTWMFGVTLWEMFTYGQEPWIGLNGSQILHKIDKEGERLPRPEDCPQDIYNVMVQCWAHKPEDRPTFVALRDFLLEAQPTDMRALQDFE SLKTRTFSHASDTWMFGVTLWEMFTYGQEPWIGLNGSQILHKIDKEGERLPRPEDCPQDIYNVMVQCWAHKPEDRPTFVALRDFLLEAQPTDMRALQDFE
Consensus		SLKTRTFSHASDTWMFGVTLWEMFTTGQEPWIGLNGSQTLHKTDREGERLPRPEDCPQDTTNVMVQCWAHRPEDRPTFVALRDFLLEAQPTDMRALQDFE SLKTRTFSHASDTWMFGVTLWEMFTYGQEPWIGLNGSQTLHKTDREGERLPRPEDCPQDTYNVMVQCWAHRPEDRPTFVALRDFLLEAQPTDMRALQDFE
Consensus	(301)	401
ACK1 MOUSE	(401)	EPDKLHIQMNDVITVIEGRAENYWWRGQNTRTLCVGPFPRNVVTSVAGLSAQDISQPLQNSFIHTGHGDSDPRHCWGFPDRIDELYLGNPMDPPDLLSVE
ACK1 HUMAN	(401)	EPDKLHIQMNDVITVIEGRAENYWWRGQNTRTLCVGPFPRNVVTSVAGLSAQDISQPLQNSFIHTGHGDSDPRHCWGFPDRIDELYLGNPMDPPDLLSVE
Consensus		EPDKLHIQMNDVITVIEGRAENYWWRGQNTRTLCVGPFPRNVVTSVAGLSAQDISQPLQNSFIHTGHGDSDPRHCWGFPDRIDELYLGNPMDPPDLLSVE
	, ,	501 600
ACK1_MOUSE	(501)	LSTSRP <mark>TQHLG</mark> RVK <mark>R</mark> EPPPRPPQPAIFTQKTTYDPVSED <mark>P</mark> DPLSSDFKRLGLRKP <mark>A</mark> LPRGLWLAKPSARVPGTKA <mark>DR</mark> SSG <mark>G</mark> EVTLIDFGEEPVVPTPRPC
ACK1_HUMAN	(501)	LSTSRP <mark>P</mark> QHLG <mark>GVK</mark> KPTYDPVSED <mark>Q</mark> DPLSSDFKRLGLRKP <mark>G</mark> LPRGLWLAKPSARVPGTKA <mark>SRG</mark> SG <mark>A</mark> EVTLIDFGEEPVVPALRPC
Consensus	(501)	LSTSRP QHLG VKK TYDPVSED DPLSSDFKRLGLRKPALPRGLWLAKPSARVPGTKA R SGAEVTLIDFGEEPVVP RPC
		601 700
ACK1_MOUSE	(601)	
ACK1_HUMAN	(586)	
Consensus	(601)	APSLAQLAMDACSLLD TPPQSPTRALPRPLHPTPVVDWDARPLPPPPAYDDVAQDEDDFEICSINSTLVGAGLPAGPSQG TNYAFVPEQA PP LED
ACK1 MOUCE	(701)	
ACK1_MOUSE ACK1 HUMAN	(701)	NLFLPPQGGGKPPSS <mark>VQTAEIFQALQQECMRQLQ</mark> VP <mark>T</mark> GQLTPSP <mark>T</mark> PGGDDKPQVPPRVPIPPRPTRPRVELSPAPSGEEETSRWPGPASPPRVPPREPLS NLFLPPQGGGKPPSS <mark>A</mark> QTAEIFQALQQECMRQLQ <mark>A</mark> PA <mark>G</mark> SPAPSP <mark>S</mark> PGGDDKPQVPPRVPIPPRPTRPHVQLSPAPPGEEETS <mark>Q</mark> WPGPASPPRVPPREPLS
Consensus	(701)	NLELFFØGGGKFFSSAQIAEIFØALQQECMKQLØAFAGSFAFSFOFGGDDKFØVFFKVFIFFKFIKFNVQLSFAFFGEEEISQMFGFASFFKVFFKLFLS NLFLPPQGGGKPPSS QTAEIFØALQQECMRQLQ P G PSPSPGGDDKPQVPPRVPIPPRPTRP V LSPAP GEEEIS WPGPASPPRVPPREPLS
consensus	(/01)	801
ACK1 MOUSE	(801)	PQGSRTPSPLVPPGSSPLPHRLSSSPGKTMPTTQSFASDPKYATPQVIQAPGPRAGPCILPIVRDG <mark>R</mark> KVSSTHYYLLPERP <mark>P</mark> YLERYQRFLREAQSPEEP
ACK1 HUMAN		PQGSRTPSPLVPPGSSPLP <mark>P</mark> RLSSSPGKTMPTTQSFASDPKYATPQVIQAPGPRAGPCILPIVRDG <mark>K</mark> KVSSTHYYLLPERP <mark>S</mark> YLERYQRFLREAQSPEEP
Consensus		PQGSRTPSPLVPPGSSPLP RLSSSPGKTMPTTQSFASDPKYATPQVIQAPGPRAGPCILPIVRDGKKVSSTHYYLLPERP YLERYQRFLREAQSPEEP
		901 1000
ACK1_MOUSE		AA <mark>LPVP</mark> PLLPPPSTPAPAAPTATVRPMPQAA <mark>P</mark> DPKANFSTNNSNPGARPP <mark>SL</mark> RA <mark>AARLPQRGCPGDG<mark>Q</mark>EA<mark>A</mark>RPADK<mark>VQ</mark>MLQA<mark>MVHGVTTEECQAALQ</mark>SHS</mark>
ACK1_HUMAN		TPLPVPLLLPPPSTPAPAAPTATVRPMPQAALDPKANFSTNNSNPGARPPPPRATARLPQRGCPGDGPEA <mark>G</mark> RPADK <mark>I</mark> QMAMVHGVTTEECQAALQ <mark>CH</mark> G
Consensus	(901)	
		1001 1055
ACK1_MOUSE		WSVQRAAQYLKVEQLFGLGLRPR <mark>VECHKVLEMFDWNLEQAGCHLLGS</mark> CGPAHHKR
ACK1_HUMAN		WSVQRAAQYLKVEQLFGLGLRPR <mark>GECHKVLEMFDWNLEQAGCHLLGS</mark> WGPAHHKR
Consensus	(TUUT)	WSVQRAAQYLKVEQLFGLGLRPR ECHKVLEMFDWNLEQAGCHLLGS GPAHHKR

С

Controls for antibody specificity: single transfected cells

D



Untransfected but stimulated with mouse OKT3 antibody (5 mins) Jurkat cells

