

	Plasma*	DMEM#	0.3X	0.1X
Alanine	146 - 494	100	100	33,3
Arginine	28-132	400	133,3	40
Asparagine	32-92	100	100	33,3
Aspartate	2-22.5	100	100	33,3
Cystine	24--58.3	200	66,7	20
Glutamate	6-62	100	100	33,3
Glutamine	450-798	4000	500	166,7
Glycine	147-299	400	133,3	40
Histidine	72-108	200	66,7	20
Isoleucine	46-122	800	266,7	80
Leucine	79-205	800	266,7	80
Lysine	135-243	800	266,7	80
Methionine	13-37	200	66,7	20
Phenylalanine	46-84,8	400	133,3	40
Proline	97-297	100	100	33,3
Serine	85-165	400 (+100)	133,3(+100)	40(+33,3)
Threonine	92-180	800	266,7	80
Tryptophan	21-65	80	26,7	8
Tyrosine	37-82,8	400	133,3	40
Valine	179-335	800	266,7	80

* : From J.R. Mayers and M.G. Vander Heiden, Trends Biochem Sci. 2015

: DMEM supplemented with MEM NEAA
Concentration in μM

Table S1

Clone	Allele	Mutation type	Mutation Sequence
LS174T-ASCT2^{KO} #1	1	Deletion	GG
	2	Deletion	GTGGGGCA
LS174T-ASCT2^{KO} #2	1	Deletion	G
	2	Deletion	GG
A549-ASCT2^{KO} #1	1	Deletion	G
	2	Deletion	TGTG
A549-ASCT2^{KO} #2	1 & 2	Deletion	GG

Targeted sequence : ASCT2 exon 5 : GTGGGGCATCGTGACGCCGC

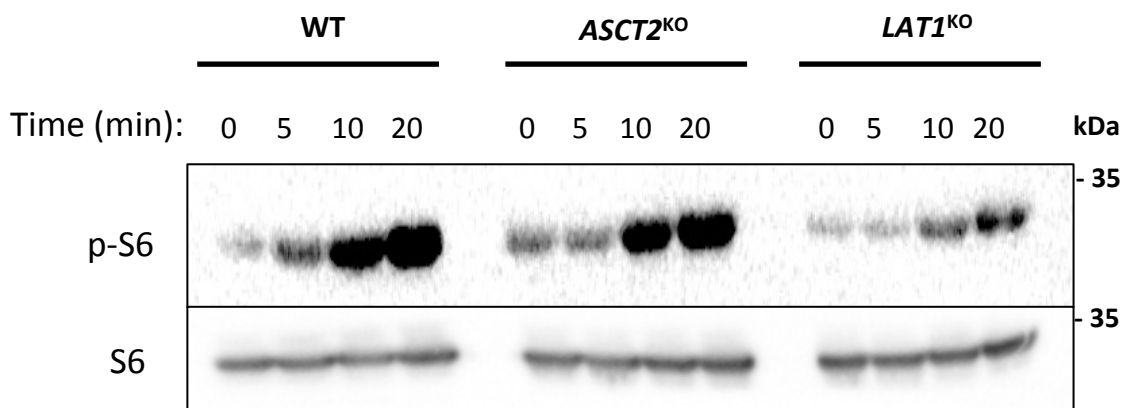
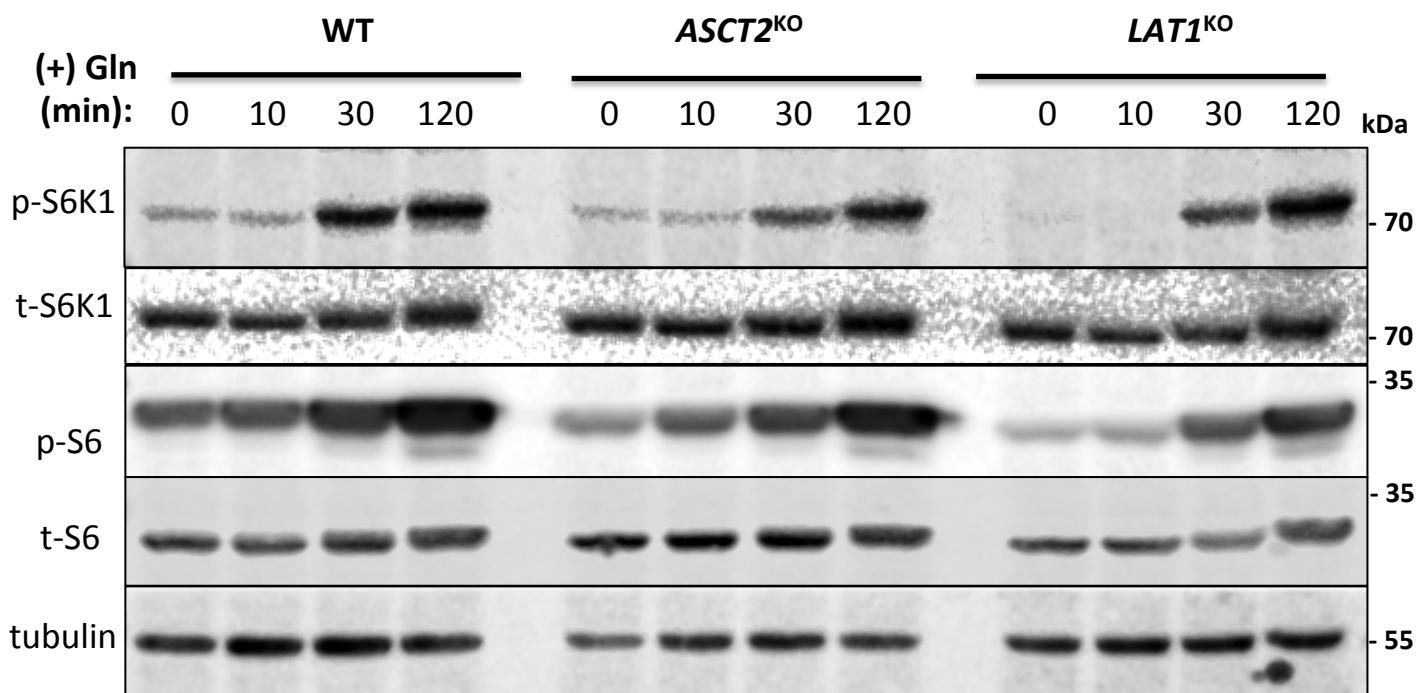
A**B**

Figure S1

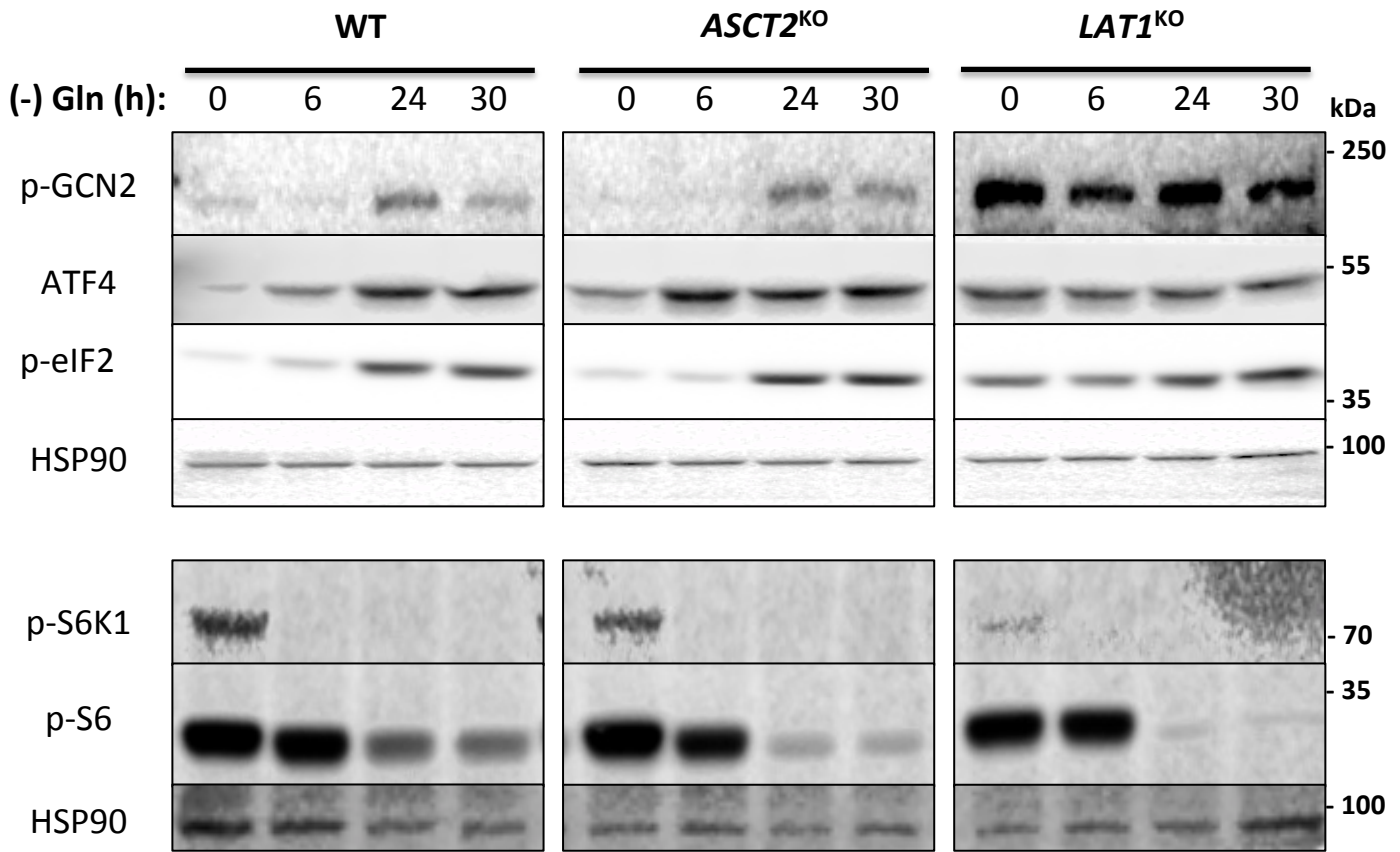


Figure S2

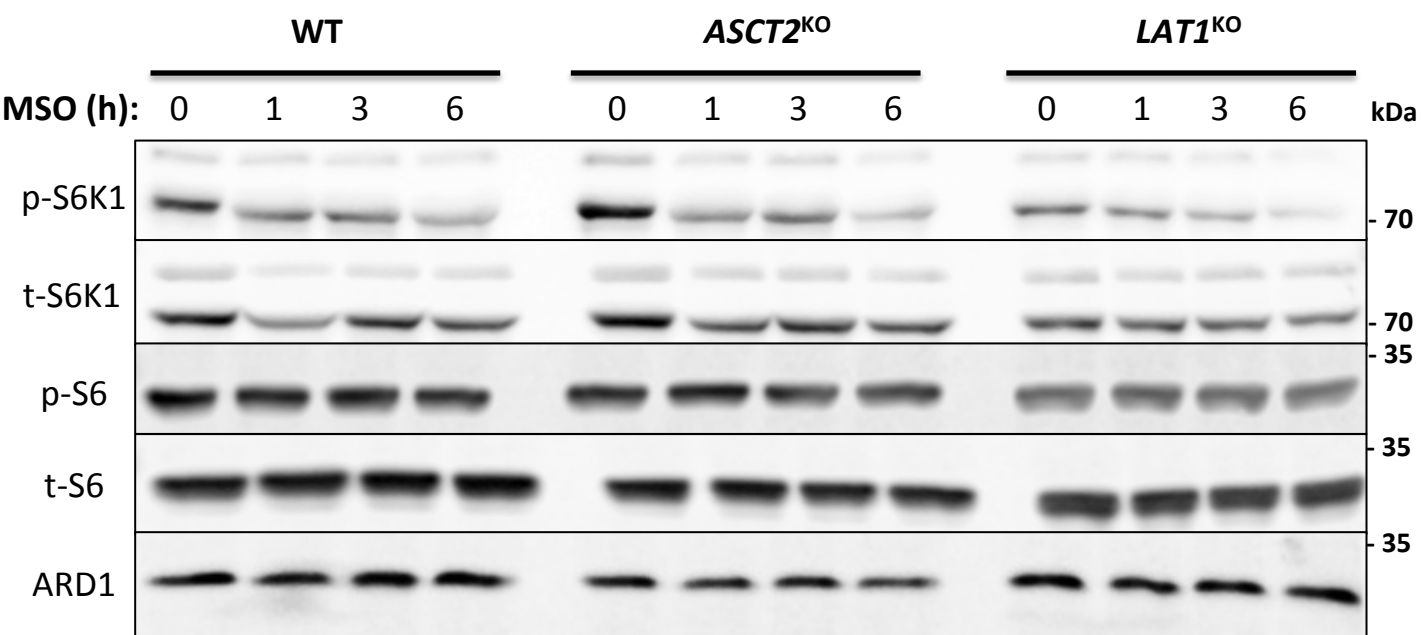


Figure S3

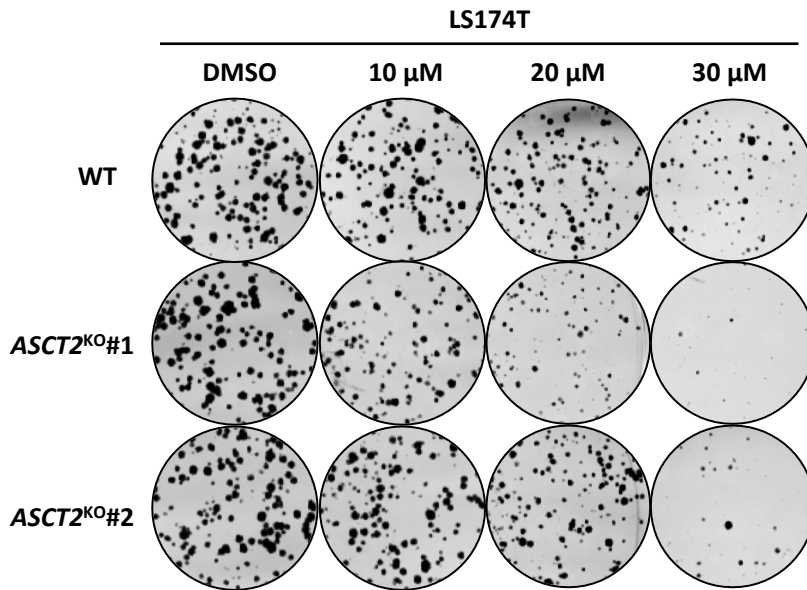
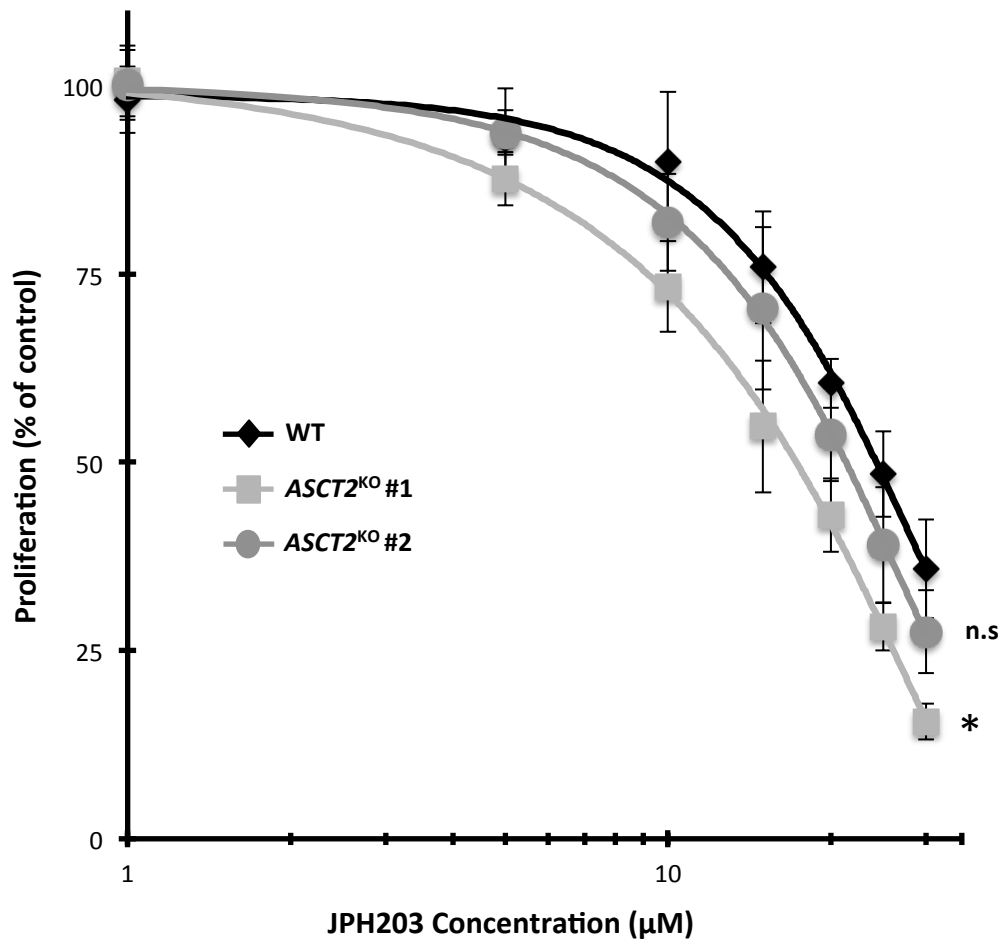
A**B**

Figure S4

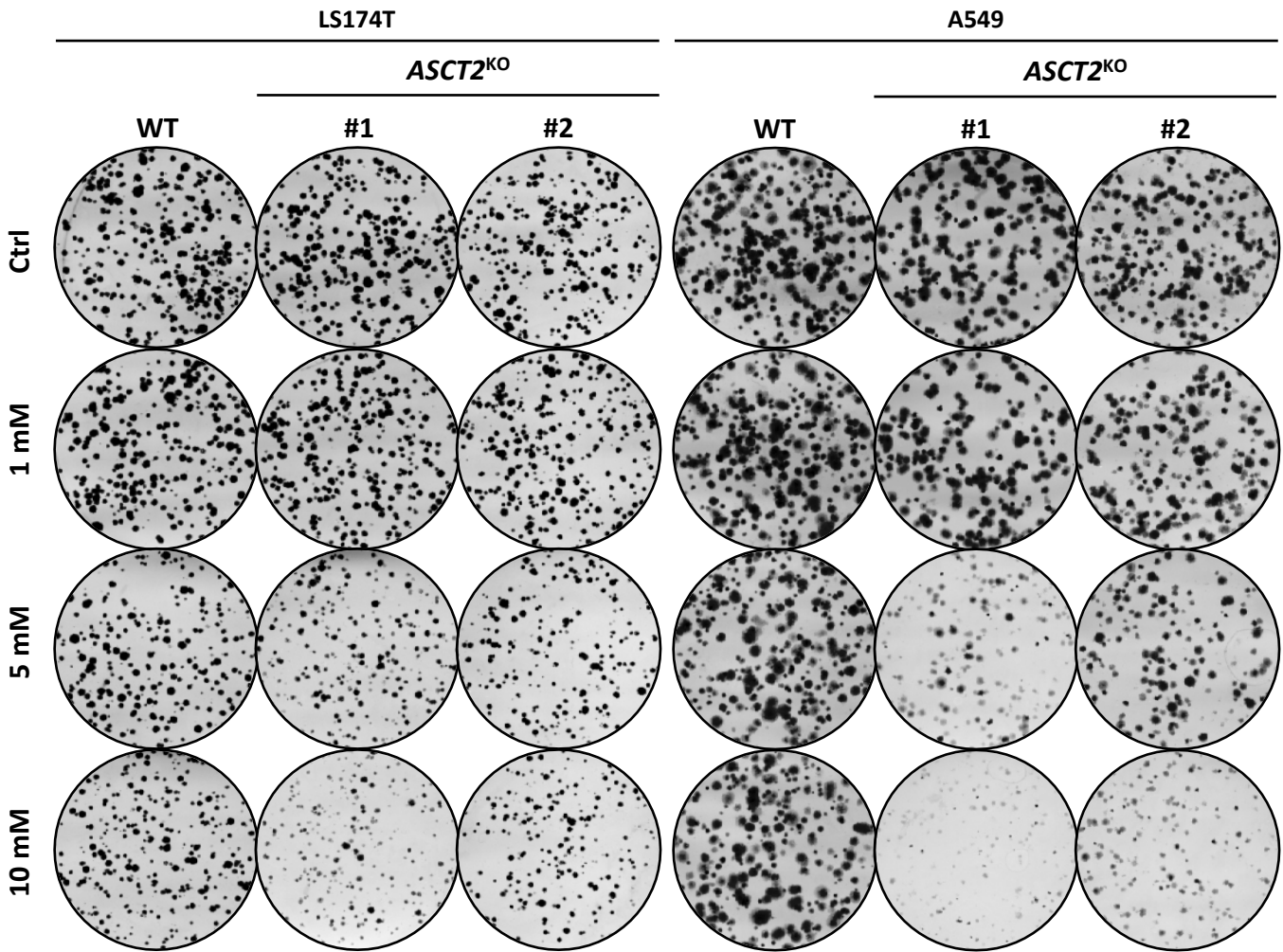


Figure S5