Suppl. Figure 4

	Transmembrane																					
втс	L	v	v	С	L	I	v	v	М	v	v	F	I	I	L	v	I	G	v	С	т	
BTC-S44	L	v	v	С	L	I	v	v	S	v	v	F	I	I	L	v	I	G	v	С	т	
BTC-S52	L	v	v	С	L	I	v	v	М	v	v	F	I	I	L	v	S	G	v	С	т	
BTC1	L	v	G	S	L	I	v	v	м	v	v	F	I	I	Р	v	I	G	v	С	т	
BTC1-S44	L	v	G	S	L	I	v	v	S	v	v	F	I	I	Р	v	I	G	v	С	т	
BTC1-S52	L	v	G	S	L	I	v	v	м	v	v	F	I	I	Р	v	S	G	v	С	т	
BTC2	L	v	G	s	L	I	v	v	S	v	v	F	I	I	Р	v	S	G	v	С	т	

40 PMA(-) PMA(+) 30 AP Ratio 0 10 0 A17-BTC1, S52 A17-BTC1, S44 A17-BTC, S52 A17-BTC, S44 A17-BTC1 A17-BTC2 A17-BTC A17-E>A Control A17 A17 (HA) 100-⊳ Tubulin 50-

Supplementary Figure 4. Test of how introduction of individual serine residues in the TMD of A17-BTC and A17-BTC1 affects the ability of these constructs to rescue constitutive and PMA-stimulated shedding of TGF α from A17-/- mEFs. Point mutations were generated in A17-BTC or A17-BTC1 by adding individual Serine residues (S44, S52) into A17-BTC or A17-BTC1 (see table in top panel, Serine residues highlighted in green), and the resulting constructs were tested for their ability to rescue constitutive or PMA- stimulated TGF α shedding from Adam17-/- mEFs (25 ng/ml PMA, 1 hour). The addition of either S44 or S52 into A17-BTC or A17-BTC1 did not significantly affect the constitutive or stimulated activity of these constructs compared to A17-BTC or A17-BTC1. Black arrowhead, pro-ADAM17; white arrowhead, mature ADAM17. All mutants were expressed at comparable levels, as assessed by Western Blot analysis. Results are presented as mean ± SEM (n=3). *P≤0.05.

Adam17^{-/-} mEFs/ TGFa