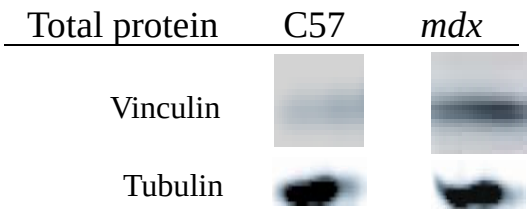
Suppl. Table S1

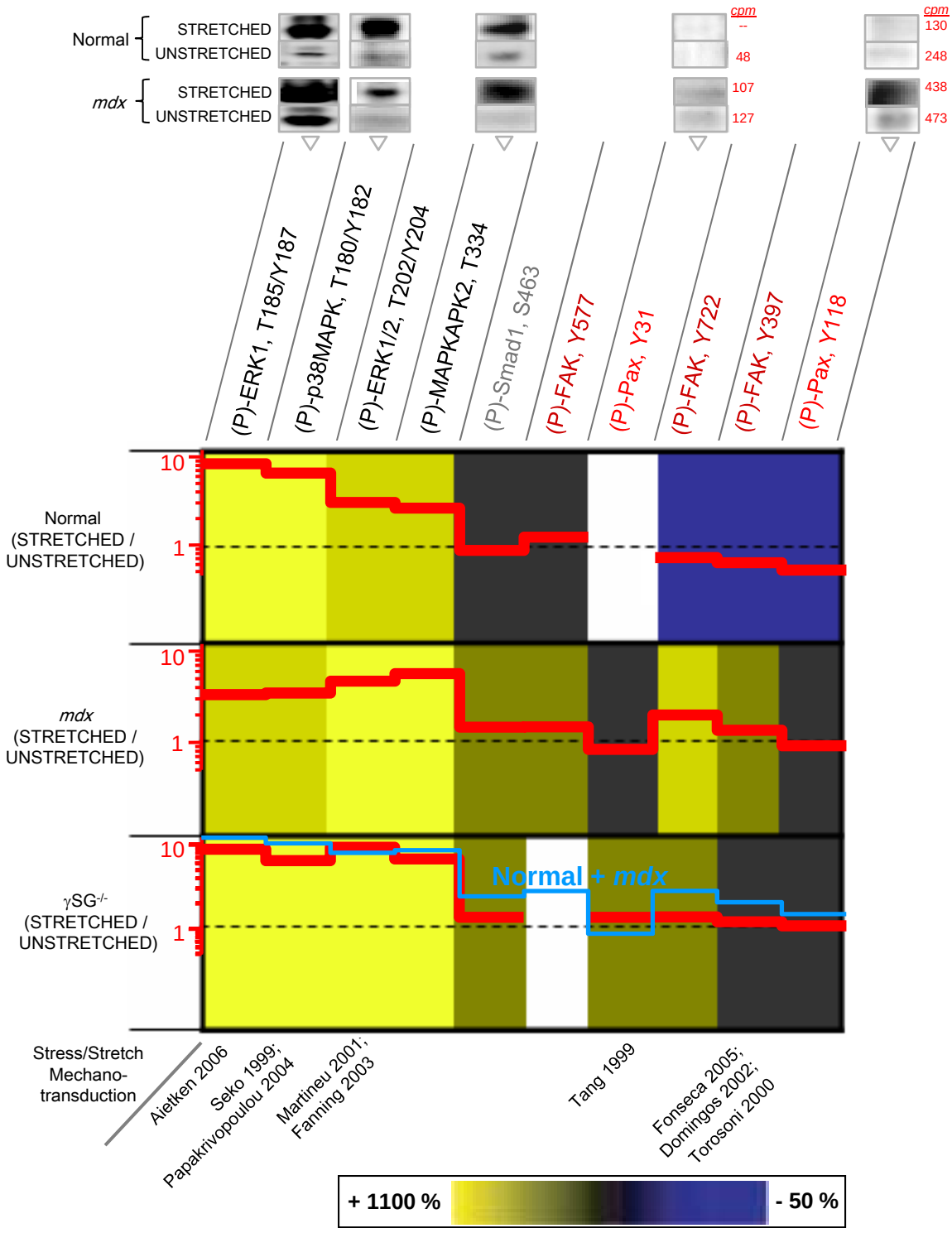
Transcript Profile comparison (Bakay et al, *Neuromuscular Disord*. 2002)

	Gene	% mdx/C57
DGC or Integrin	**Integrin β2**	**242.4**
	Integrin α7	**26.6**
	Filamin A	18.5
	Dystroglycan	-15.7
	γ Sarcoglycan	-17
	Dystrophin	**-72.9**
FA and Cytoskeleton	**γ Actin**	**76.7**
	Vinculin	**35.1**
	NMM2A	**33**
	Rhotekin α	29
	Paxillin	14.4
	NMM2B	4.8
	SMM2	-4.6
	FAK (PTK2)	**-27**
MAPK's	**MAPK3 (ERK1/2)**	**116**
	MAPK14	-15.7
	MAPK12	**-29.9**

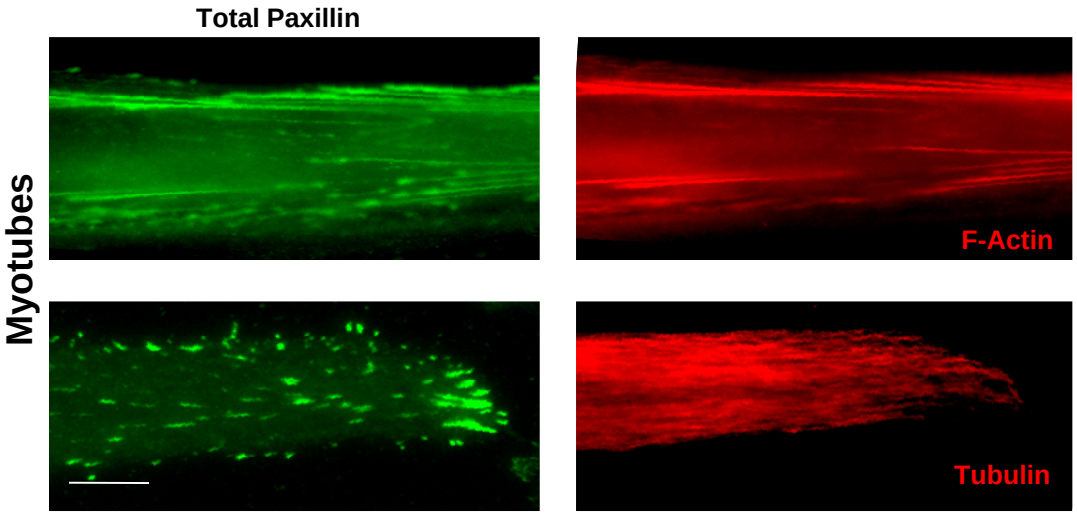


Suppl. Fig. S2

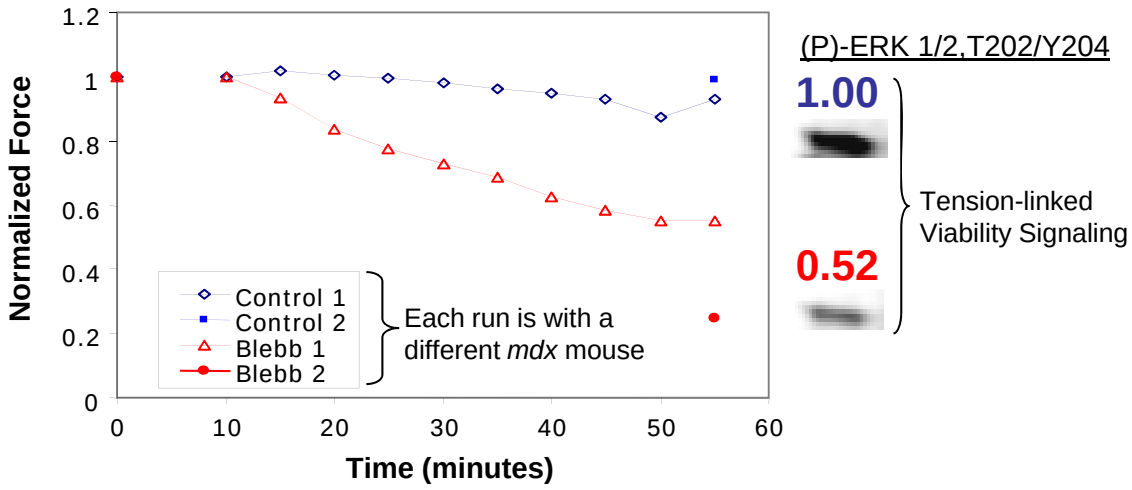
Stretch activation of MAPK pathways is generic and sustained, but phospho-Paxillin consistently shows basal levels.



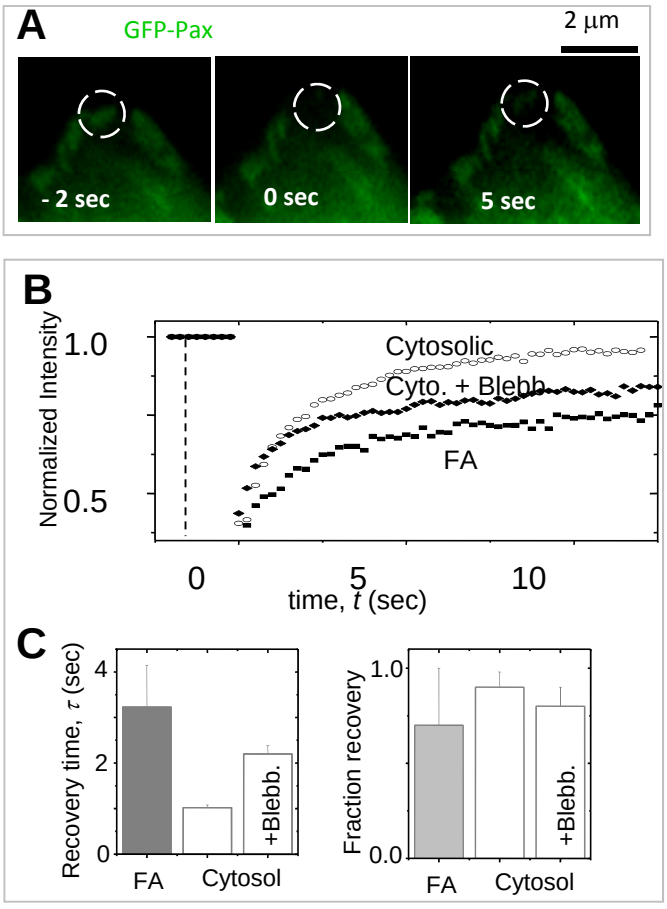
Suppl. Fig. S3
Co-Localization of Paxillin in Myotubes



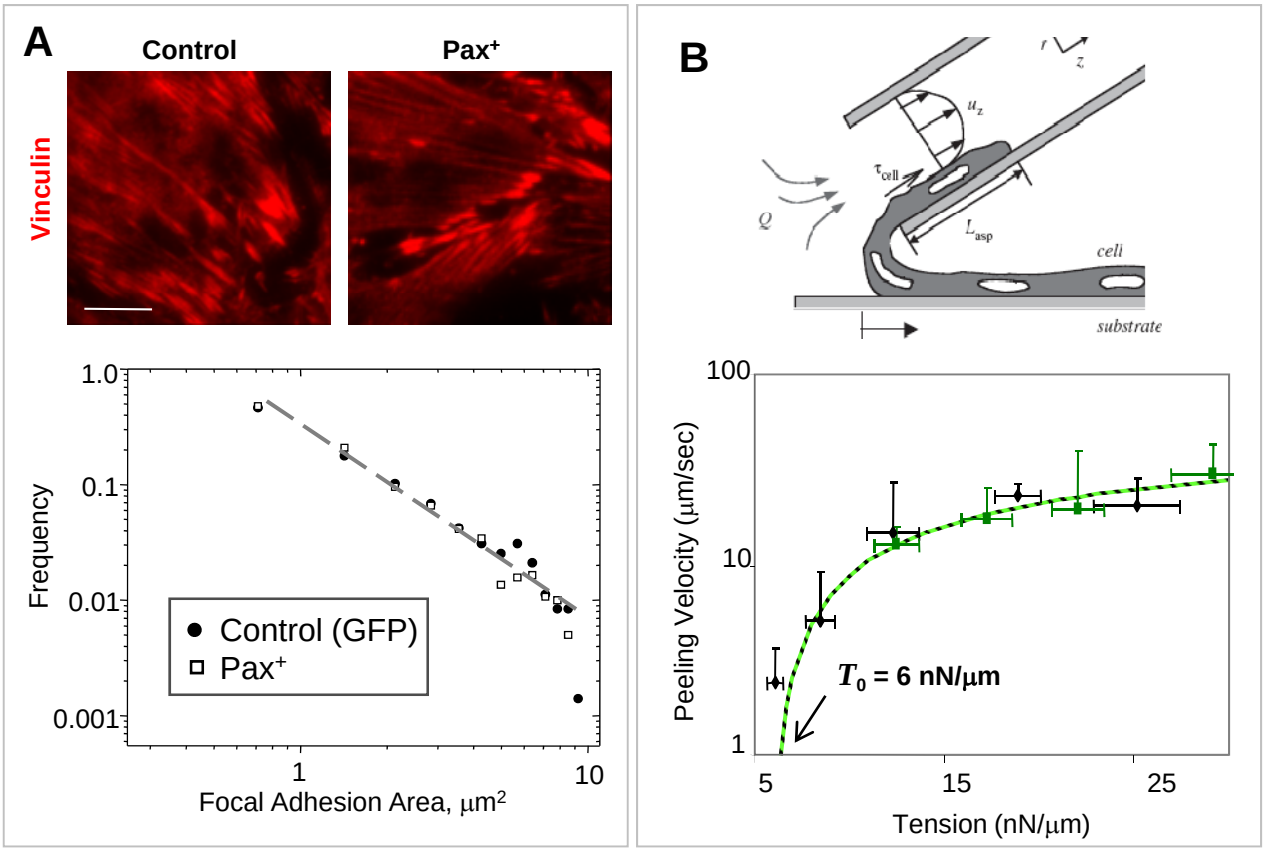
Suppl. Fig. S4
Blebbistatin relaxes tension and decreases (P)-ERK in *ex vivo* Myofibers



Suppl. Fig. S5
GFP-Paxillin diffusion in myoblasts based on FRAP.



Suppl. Fig. S6 Pax overexpression does not remodel adhesions or contribute to adhesion strength, consistent with a non-structural role in signaling



Suppl. Fig. S7
Spontaneous relaxation of γSG-/- but not mdx myotubes