



Boston Children's Hospital

HARVARD MEDICAL SCHOOL
TEACHING HOSPITAL

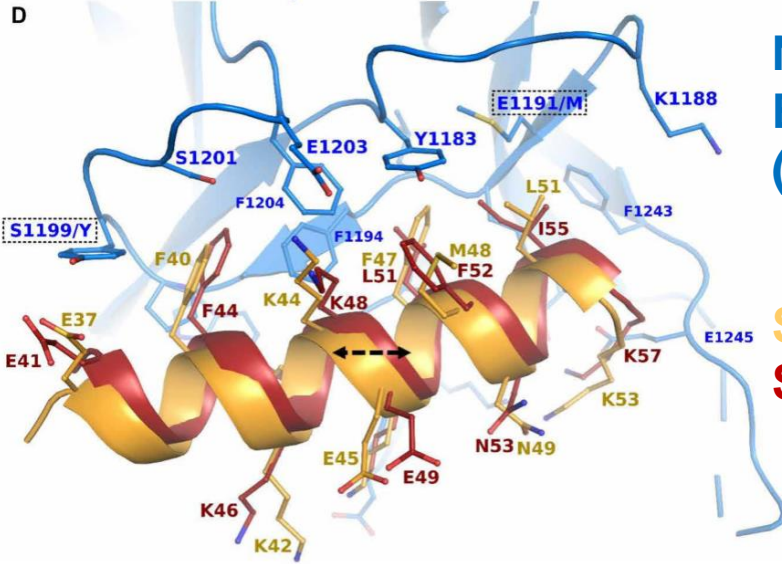
MP54-02

Synaptotagmin-1 is the dominant receptor for botulinum neurotoxin B binding in the mouse bladder

Hatim Thaker, MD, Jie Zhang, PhD, Min Dong, PhD

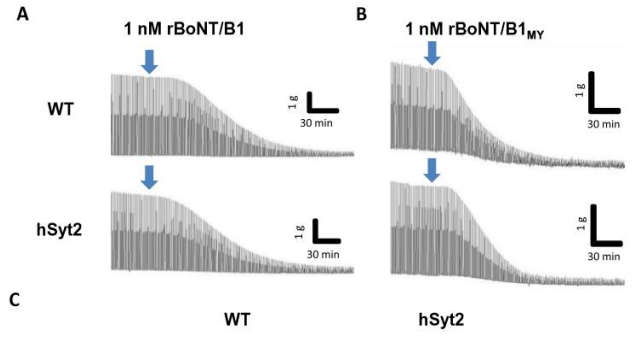
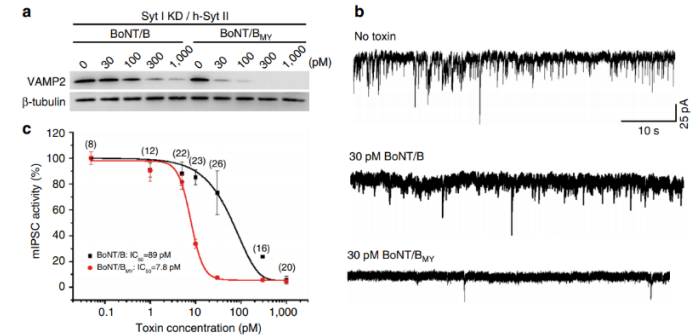
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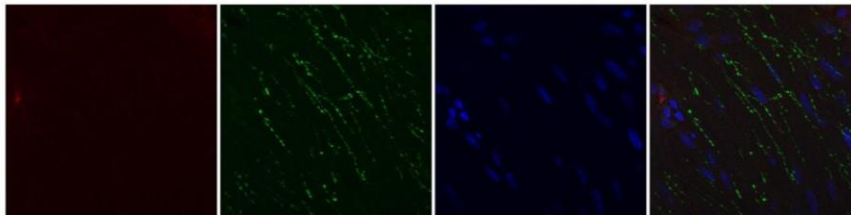
Novel Toxin BoNT/B_{MY} (binding domain)

Syt-I Receptor Syt-II Receptor

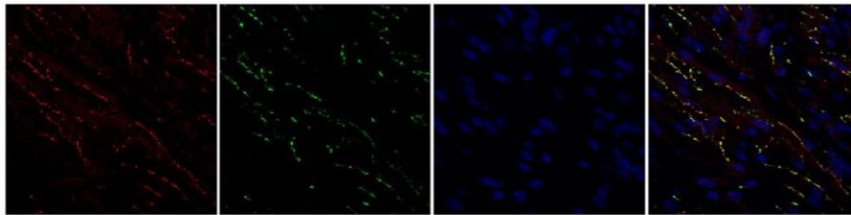


WT Bladder

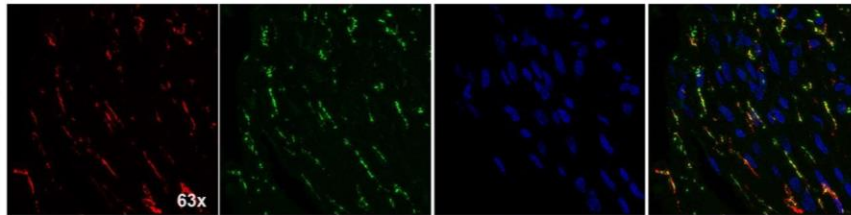
anti-Syt-2/Synapsin/DAPI



anti-Syt-1/Synapsin/DAPI

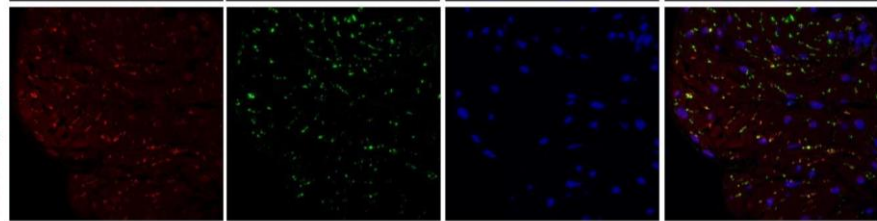


Beta-3 tubulin/Synapsin/DAPI



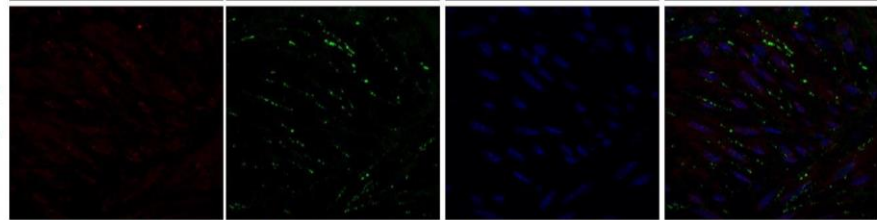
Syt1 -/- Bladder

anti-Bont/B/Synaptophysin 7.2/DAPI



Syt1 -/- Bladder

anti-Bont/B/Synaptophysin 7.2/DAPI



WT Bladder

anti-Bont/B/Synaptophysin 7.2/DAPI

