

**Supplementary information, Table S1** Antibody company and working concentration

antibody name	company	concentration for Western blotting	concentration for immunohistochemistry or immunocytochemistry
P2X <sub>3</sub>	Neuromics	1:1000	
P2X <sub>3</sub>	Chemicon		1:2000
TrkA	Advenced Targeting System	1:5000	
TrkA	R&D		1:1000
NGF	Santa Cruz	1:500	
NGF	R&D		1:400
synaptophysin	Chemicon	1:2000	1:1500
actin	Chemicon	1:100000	
Myc	Sigma		1:50
GFP	Roche	1:2000	
tubulin	Sigma	1:1000	
pERK	Santa Cruz	1:1000	
ERK	Santa Cruz	1:2000	
H-Ras	Santa Cruz	1:2000	
pERK	Cell Signaling		1:100
Ras	Santa Cruz		1:250
pMEK	Cell signaling	1:1000	1:250
Rab7	Sigma	1:1000	
caveolin1a	Santa Cruz	1:5000	1:500
pCREB	Cell Signaling	1:1000	
CREB	Cell Signaling	1:1000	
DIC	Chemicon		1:100