

Materials List for:

# Morphological and Functional Evaluation of Ribbon Synapses at Specific Frequency Regions of the Mouse Cochlea

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URL: <https://www.jove.com/video/59189>

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## Materials

Name	Company	Catalog Number	Comments
Ketamine hydrochloride	Gutian Pharmaceutical Co., Ltd., Fujian, China	H35020148	100 mg/kg
Xylazine hydrochloride	Sigma-Aldrich, St. Louis, MO, USA	X-1251	10 mg/kg
TDT physiology apparatus	Tucker-Davis Technologies, Alachua, FL, USA	Auditory Physiology System III	
SigGen/BioSig software	Tucker-Davis Technologies, Alachua, FL, USA	Auditory Physiology System III	
Electric Pad	Pet Fun	11072931136	
Dumont forceps 3#	Fine Science Tools, North Vancouver, B.C., Canada	0203-3-PO	
Dumont forceps 5#	Fine Science Tools, North Vancouver, B.C., Canada	0209-5-PO	
Stereo dissection microscope	Nikon Corp., Tokyo, Japan	SMZ1270	
Goat serum	ZSGB-BIO, Beijing, China	ZLI-9021	
Anti-glutamate receptor 2, extracellular, clone 6C4	Millipore Corp., Billerica, MA, USA	MAB397	mouse
Purified Mouse Anti-CtBP2	BD Biosciences, Billerica, MA, USA	612044	mouse
Alexa Fluor 568 goat anti-mouse IgG1 antibody	Thermo Fisher Scientific Inc., Waltham, MA, USA	A21124	goat
Alexa Fluor 488 goat anti-mouse IgG2a antibody	Thermo Fisher Scientific Inc., Waltham, MA, USA	A21131	goat
Mounting medium containing DAPI	ZSGB-BIO, Beijing, China	ZLI-9557	
Confocal fluorescent microscopy	Leica Microsystems, Wetzlar, Germany	TCS SP8 II	
Image Pro Plus software	Media Cybernetics, Bethesda, MD, USA	version 6.0	
Professional diagnostic pocket otoscope	Lude Medical Apparatus and Instruments Trade Co., Ltd., Shanghai, China	HS-OT10	
Needle electrode	Friendship Medical Electronics Co., Ltd., Xi'an, China	1029	20 mm, 28 G
Closed-field speaker	Tucker-Davis Technologies, Alachua, FL, USA	CF1	