

Characterization of a Novel Human Organotypic Retinal Culture Technique

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Materials

Name	Company	Catalog Number	Comments
Disposable Biopsy Punches (5 mm)	Integra York PA Inc., USA	21909-142	Referred as surgical trephines in this article
Human Recombinant IL-1 β	Peprtech, USA	200-01B	Working concentration: 10 ng/mL
Human Recombinant TNF- α	Peprtech, USA	300-01A	Working concentration: 10 ng/mL
DAPI (1 μ g/mL)	Sigma Aldrich, Germany	#D9542	Nuclear stain. Working dilution 1:1000
DMEM/F-12, GlutaMAX supplement	Gibco, Thermofisher, Scientific Inc., USA	10565018	Dulbecco's Modified Eagle Medium nutrient mixture F-12 containing a 1 \times antibiotics and antimycotics mixture (AA, 100 \times stock)
Fine Scissors - Sharp-Blunt	Fine Science Tools (F.S.T)	14028-10	Tips: Sharp-Blunt, Cutting Edge: 27mm, Length: 10cm, Alloy/Material: Stainless Steel, Serrated: No, Tip Shape: Straight
Graefe Forceps	Fine Science Tools (F.S.T)	11050-10	Length:10cm, Tip shape: Straight, Tips: Serrated, Tip Width: 0.8mm, Tip Dimensions:0.8 x 0.7mm, Alloy/Materials: Stainless Steel
Mouse monoclonal GFAP-Cy3	Sigma Aldrich, Germany	#C9205	Primary antibody conjugated to Cy3. Working dilution 1:1000.
Mouse monoclonal Vimentin-Cy3	Sigma Aldrich, Germany	#C9080	Primary antibody conjugated to Cy3. Working dilution 1:50.
Rabbit polyclonal TUNEL (In Situ Cell Death Detection Kit, Fluorescein)	Sigma Aldrich, Germany	#11684795910	Primary antibody conjugated to Fluorescein-dUTP. Working dilution 1:10 with enzyme-buffer solution.