

Materials List for:

# Visualization of Endogenous Mitophagy Complexes In Situ in Human Pancreatic Beta Cells Utilizing Proximity Ligation Assay

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## Materials

Name	Company	Catalog Number	Comments
0.25% trypsin-EDTA 1X	Life Technologies	25200-056	
Antibiotic-Antimycotic	Life Technologies	15240-062	
Block solution	Homemade		Use 1X PBS, add 10 % donkey serum, and 0.3% Triton X-100 detergent.
Buffer A	Homemade		To make 1L: Mix 8.8g NaCl, 1.2g Tris base, 500ul Tween-20, with 750mL ddH2O. pH to 7.5 with HCl, and fill to 1L. Filter solution and store at 4C. Bring to RT before experimental use
Buffer B	Homemade		To make 1L: Mix 5.84g NaCl, 4.24g Tris base, 26g Tris-HCl with 500mL ddH2O. pH to 7.5, and fill to 1L. Filter solution and store a 4C. Bring to RT before experimental use
Cy5-conjugated AffiniPure donkey anti-goat	Jackson Labs	705-175-147	
Detection Reagents Red	Sigma- Aldrich	DU092008-100RXN	Kit containing: ligation solution stock (5X), ligase, amplification solution stock (5X) and polymerase.
DuoLink PLA probe anti-mouse MINUS	Sigma- Aldrich	DU092004-100RXN	
DuoLink PLA probe anti-rabbit PLUS	Sigma- Aldrich	DU092002-100RXN	
Fetal bovine serum			
Goat polyclonal anti-PDX1 (clone A17)	Santa Cruz	SC-14664	RRID: AB_2162373
HEPES (1M)	Life Technologies	15630-080	
MIN6 pancreatic cell line	Gift from D. Stoffers		Mouse insulinoma cell line, utilized for cell-based assays.
Mouse monoclonal anti-USP8 antibody (clone US872)	Sigma- Aldrich	SAB200527	
Pap-pen	Research Products International	195505	
Parafilm			Use to seal antibody and probe solutions on your cells to prevent evaporation when using small solution volumes.
PBT (phosphate buffered saline with triton)	Homemade		To make 50mL: 43.5mLddH2O, 5mL 10X PBS, 0.5mL 10X BSA(100mg/mL solution), 1mL

			10% triton X-100 solution in ddH2O)
Penicillin-Streptomycin (100X)	Life Technologies	15140-122	
Phosphate buffered saline, 10X	Fisher Scientific	BP399-20	
PIM(ABS) Human AB serum	Prodo Labs	PIM-ABS001GMP	
PIM(G) (glutamine)	Prodo Labs	PIM-G001GMP	
PIM(S) media	Prodo Labs	PIM-S001GMP	
PR619	Apex Bio	A812	
Prolong Gold antifade reagent with DAPI	Life Technologies (Molecular Probes)	P36935	
Rabbit polyclonal anti-FLRF/ RNF41 (Nrpd1)	Bethyl Laboratories	A300-049A	RRID: AB_2181251
SH-SY5Y cells	Gift from L. Satin		Human neuroblastoma cell line, utilized for cell-based assays.
Sodium Pyruvate (100X)	Life Technologies	11360-070	
Triton X-100	Fisher Scientific	BP151-100	
Tween-20	Fisher Scientific	BP337-100	
Water for RNA work (DEPC water)	Fisher Scientific	BP361-1L	