

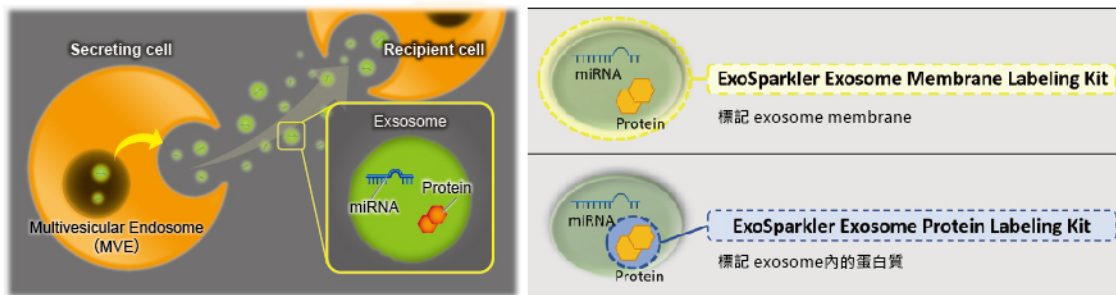
Exosome 標定染劑

DOJINDO

研究Exosome的好工具

ExoSparkler Exosome Membrane Labeling Kit-Green, Red, Deep Red
ExoSparkler Exosome Protein Labeling Kit-Green, Red, Deep Red

Exosome 在剛被發現的初期，被視為沒有功能的細胞垃圾場。但在往後的二十年，越來越多的研究證據推翻了起初對exosome的觀點，exosome 在生物體內扮演細胞或組織間溝通的關鍵角色，如癌細胞分泌出來的exosome 會促進周圍血管新生，增加周圍組織分泌細胞激素與蛋白酶讓癌細胞更容易轉移，也會抑制免疫細胞的反應。Exosome 被分泌後會去哪些組織細胞也是下一個熱門的研究領域。



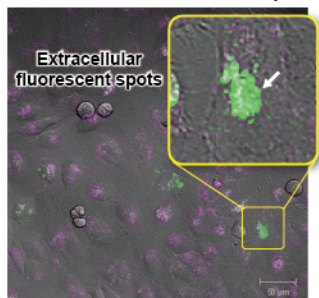
使用 ExoSparkler Series 系列染劑可更準確地觀察 Exosome

市面上常見的exosome membrane染劑會因為染劑聚集而表現出並非來自exosome的螢光斑點。Dojindo 推出的新一代 exosome labeling dyes跟以往的 exosome dyes 相比，具有較溫和的疏水性，不會因為染劑的聚集而對 exosome 的物理特性產生影響而能更準確的觀察exosome。

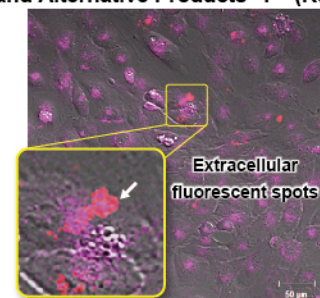
ExoSparkler 系列染劑不會有染劑聚集現象亦不會改變 exosome 特性

使用傳統螢光染劑可觀察到細胞外有螢光斑點

Costaining with Mem Dye-Deep Red (Purple)
and Alternative Products "P" (Green)

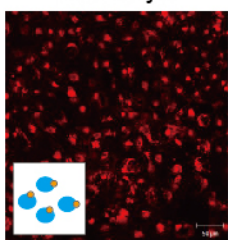


Costaining with Mem Dye-Deep Red (Purple)
and Alternative Products "P" (Red)



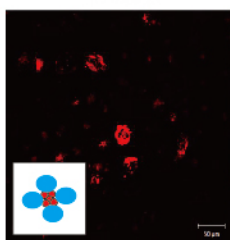
Dojindo染劑不會改變exosome物理特性

Mem Dye



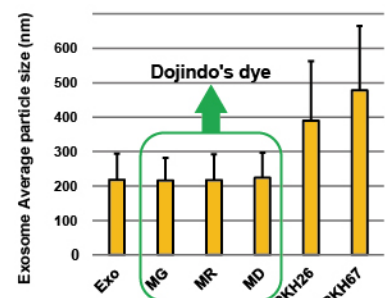
● Exosome ● Mem Dyes

PKH26



● Exosome ● PKH particle

Dojindo exosome labeling dye 能使 exosome 維持原始顆粒大小，傳統螢光染劑會讓 exosome 的顆粒變大，干擾細胞與 exosome 互動行為。

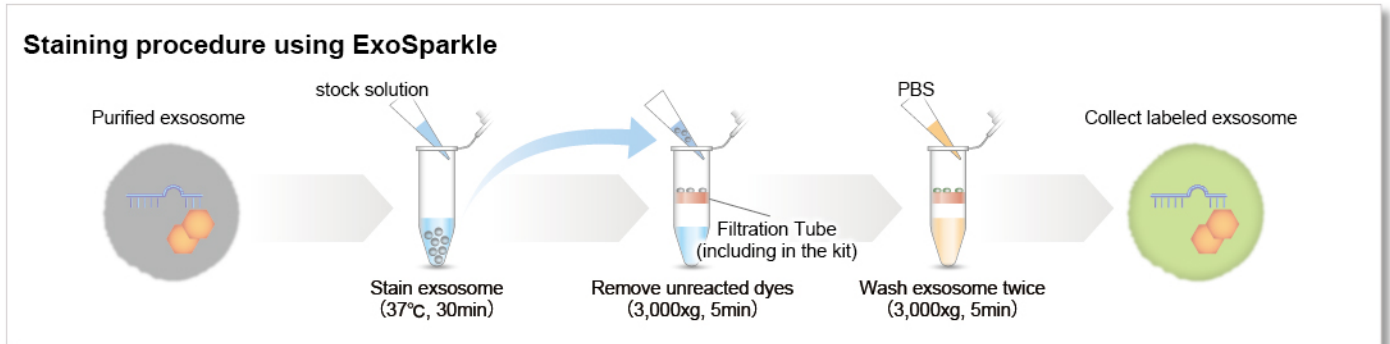


NEXT

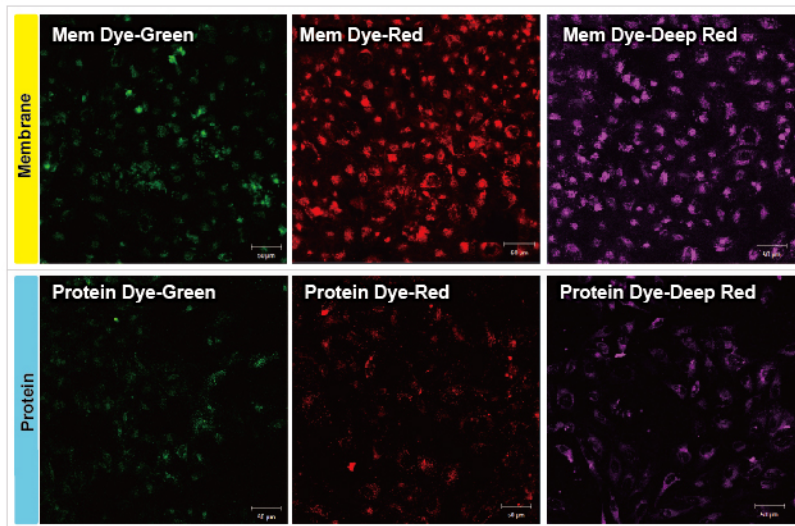


操作簡便且附有 Filtration Tube 可移除多餘的染劑

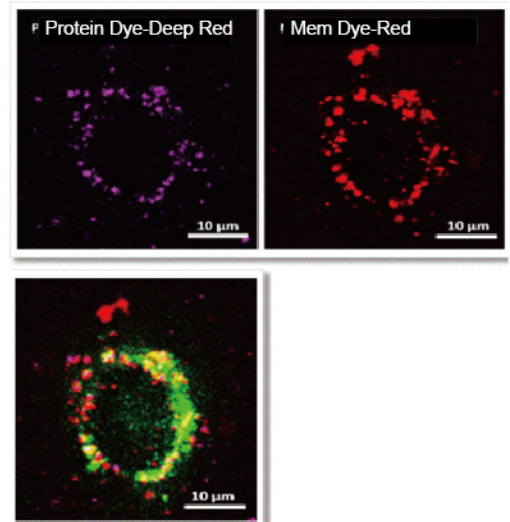
添加染劑到分離後的 exosome 樣品中，只要反應 30 分鐘之後，利用filter離心的方式去除多餘染劑即可得到標定好的exosome。



ExoSparkler series product comparison



Localization of exosomes



Green: lysosome staining

產品資訊

Description	Unit size	Ex/Em (nm)	Code
ExoSparkler Exosome Membrane Labeling Kit-Green	5 samples*	488/490-540	EX01
ExoSparkler Exosome Membrane Labeling Kit-Red	5 samples*	561/570-640	EX02
ExoSparkler Exosome Membrane Labeling Kit-Deep Red	5 samples*	640/ 640-760	EX03
ExoSparkler Exosome Protein Labeling Kit-Green	5 samples*	488/490-540	EX04
ExoSparkler Exosome Protein Labeling Kit-Red	5 samples*	561/570-640	EX05
ExoSparkler Exosome Protein Labeling Kit-Deep Red	5 samples*	640/640-760	EX06

* Protein amount : 1-10 μg/ sample, Particle count : 10 to 100 x 10⁹/sample