NEO-STEMTM

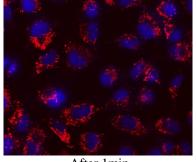
Fluorescent Magnetic Nanoparticle for a Cell Tracking

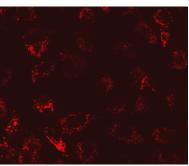


Table 1. Contents	and Storage	e information

Material	Wavelength	Concentration	Storage
NEO-STEM TM TSF, TMSF	Ex/Em = 491/515 nm	2 mg/ml	2-6℃
NEO-STEM TM TSR, TMSR	Ex/Em = 558/581 nm	in borate buffer,	Do not freeze or dry
NEO-STEM TM TSN, TMSN	Ex/Em = 595/615 nm		Do not neede of ary

Photo stability



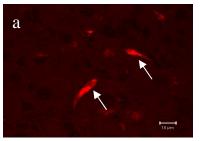


After 1min Figure 1 Photo stability of NEO-STEMTM

After 30 min

A549 cells labeled with both NEO-STEMTM and DAPI, was exposure under UV for 30 min. In contrast of DAPI, NEO-STEMTM shows a strong fluorescent signal (Red : NEO-STEMTM, Blue : DAPI)

Long term cell tracking



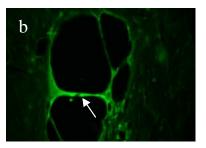
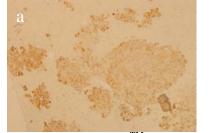


Figure 2. Long term cell tracking

a) hMSC labeled with NEO-STEMTM was detected in liver tissue after 7days. b) Bone marrow derived stem cells labeled with NEO-STEMTM was detected in fracture site. We can also detect stem cells differentiated into osteoblast. You can observe cell migration, metastasis and differentiation by using NEO-STEMTM

Conjugation with various biomolecules



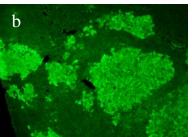


Figure 3. NEO-STEMTM conjugated with G-STP antibody a) Positive control (DAB staining) b) Immunohistochemistry image by NEO-STEMTM conjugated with G-STP antibody NEO-STEMTM could be used in a number of biomedical applications such as targeting, bioimaging, cell sorting, and drug delivery.

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