

This technique was used to visualize the nanoparticles degradation by the MMP2 enzyme.

MATERIALS:

- Chip : MITOMI device and glass slide plasma treated and bonded to each other
- Biotin-BSA (2 mg/ml)
- 1X PBS
- Neutravidin (0.5 mg/ml)
- Biotinylated CY5 labeled gelatin nanoparticles
- MMP2 (Matrix Metalloprotease-2, human recombinant, expressed in mouse NSO cells from Sigma)

PROCEDURE:

- ☐ Close neck
- ☐ Flow 2mg/ml biotin-BSA for 20 min
- ☐ Wash with 1X PBS for 5 min
- ☐ Flow neutravidin (0.5 mg/ml) for 20 min
- ☐ Wash with 1X PBS for 5 min
- ☐ Flow nanoparticles (CY5 labeled, biotinylated) for 5 min
- ☐ Scan
- ☐ Wash with 1X PBS for 5 min
- ☐ Scan
- ☐ Flow MMP2 (activated according to the manufacturer's instructions)
- ☐ Scan
- ☐ Wash with 1X PBS for 5 min
- ☐ Scan