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| S1 Table |  |  |
| **Assessment of staining intensity against MyHCs after various fixation treatments.**  |
| 　 | 1% Triton X-100 |
| treated | non-treated |
| 1. steam treatment in PBS | +++ | +++ |
| 2. acetone treatment | - | - |
| 3. PFA treatment | - | - |
| 4. PFA treatment +steam treatment in citrate buffer  | + | + |
| 5. boiling in PBS solution | +++ | +++ |
| 6. boiling in citrate buffer | + | + |
| 7. no fixation | - | - |
| \* Staining intensity was scored as - (negative), + (weak), or +++ (strong). |

**1. steam (PBS):** steam for 5 min in PBS by food steamer, cool down for at least 30 min

**2. acetone:** immerse in aceton for 60 sec at -20°C and air-dry for 10 min at room temperature

**3. PFA:** immerse in 4% paraformaldehyde (PFA) in PBS for 20 min at 4°C

**4. PFA + steam (citrate buffer):** immerse in 4% PFA for 20 min at 4°C, then steam for 20 min in 10 mM citrate buffer (pH 6), then cool down for at least 30 min.

**5. microwave (PBS):** heat for 5 min in 200 mL PBS by microwave, leave for 5 min, heat for 5 min again, cool down for at least 30 min.

**6. microwave (citrate buffer):** heat for 5 min in 200 mL 10 mM citrate buffer (pH 6) by microwave, leave for 5 min, heat for 5 min again, cool down for at least 30 min.