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Catalog No. PMC-AK04F-COS

TRAP Staining Kit

Introduction

The TRAP Staining Kit (Cat.No.PMC-AK04F-COS) is used for the staining of Tartrate-Resistant Acid Phosphatase in osteoclasts. Bone mass is controlled by the balance between the activity of osteoblasts bone formation and the activity of osteoclasts. Alkaline phosphatase (ALP: ALP staining kit, Cat.No.PMC-AK20-COS) and tartrate-resistant acid phosphate are used as markers for osteoblasts and osteoclasts, respectively.

Components

Component	Quantity	Storage
Tartrate-containing Buffer	50mL	4°C
Chromogenic Substrate	10vials	4°C

One kit contains regents for 10 x 96-well plates

Additional Materials Required

- 10% Formalin Neutral Buffer Solution
- Phosphate Buffered Saline (PBS)
- · Distilled or deionized water

Protocol (96-well plate format)

- 1. Remove culture medium. Wash each well once with 100uL of PBS.
- 2. Add 50uL of the 10% Formalin Neutral Buffer Solution to each well and fix for 5 minutes at room temperature.
- 3. Wash each well with 250uL of deionized water. (× 3 times)
- 4. Dissolve 1 vial of Chromogenic Substrate with 5mL of Tartrate-containing Buffer.
- Add 50uL of Chromogenic Substrates to each well.
- 6. Incubate at 37° C for 20-60 minutes. Adjust incubation time until stained TRAP is clearly showing the result in figure 1.
- 7. Wash with deionized water to stop the reaction.

Note: Excess incubation will be cause of over stained.

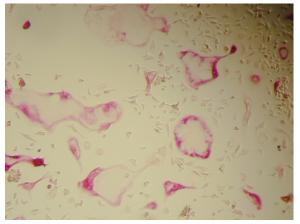


Figure 1: TRAP staining of Osteoclast



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References

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