

# TRAP Staining Kit

Cat. No. PMC-AK04-COS

Last Updated: 2015/4/22

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## 【 I 】 Background

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.

## 【 II 】 Kit Components

Component	Quantity	Storage
Tartrate-containing Buffer	50ml	4° C
Chromogenic Substrate	10 Vials	4° C

One kit contains reagents for 10 × 96-well plates

## 【 II 】 Additional Materials Required

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

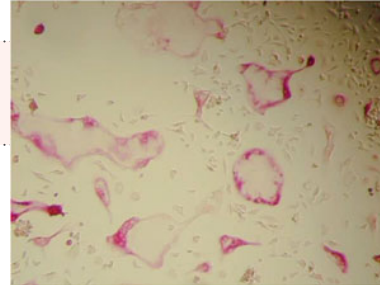
## 【 II 】 Protocol

- 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

**5** Add 50uL of Chromogenic Substrates to each well.

**6** Incubate at 37° C for 20-60 minutes. Adjust incubation time until stained TRAP staining appears similar to the adjacent figure.

**7** Wash with deionized water to stop the reaction.



Note: Excess incubation will be cause of over stained.

## 【 VI 】 References

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## 【 VII 】 Notice to Purchaser

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