

# BONE AND CARTILAGE METABOLISM

## Immunoassays



## HUMAN TRAP 5 ASSAY

*Cat. No.: RD197025000*

**RUO**

### Intended use

The RD197025000 Human TRAP 5 Assay is an ImmunoCapture Enzyme-Activity Assay for the quantitative measurement of human TRAP 5 in serum and EDTA plasma.

- The total assay time is less than 4 hours
- The kit measures TRAP 5 proteins exhibiting enzyme activity
- Assay format is 96 wells
- Quality Controls are recombinant TRAP 5 protein based. No animal sera are used
- Calibrators are recombinant protein based
- Components of the kit are provided ready to use, concentrated or lyophilized

### Clinical application

- Bone and cartilage metabolism

# Immunoassays

## Test principle

In the BioVendor Human TRAP 5 Assay, Calibrators, Quality Control and samples are incubated in microplate wells pre-coated with monoclonal anti-human TRAP 5 antibody. After a thorough wash, TRAP 5 bound to the antibody is allowed to react with the pNPP substrate at pH 5.5. The reaction is stopped by addition of hydroxide solution and absorbance of the resulting yellow colour product is measured

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Assay format	Immunocapture enzyme activity assay
Samples	Plasma-EDTA, Serum
Controls	Quality Control
Standards	0.2 to 4 U/I
Limit of detection	0.01 U/I
Cross-reactivity	Dog, Monkey, Rabbit

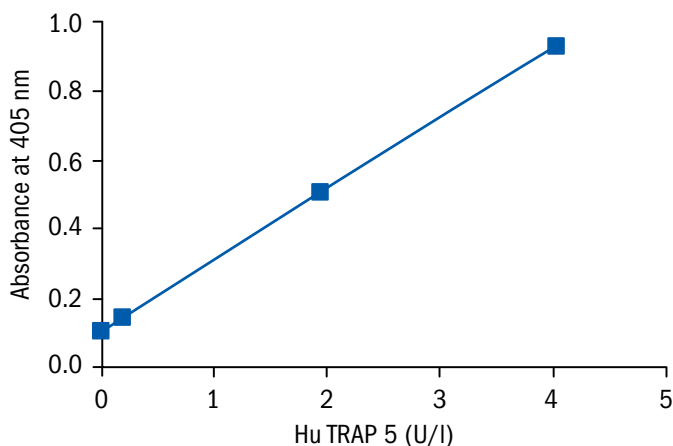
spectrophotometrically at 405 nm. The absorbance is proportional to the enzymatic activity of TRAP 5. A standard curve is constructed by plotting absorbance values versus enzyme activities of recombinant TRAP 5 calibrators, and enzyme activity of unknown samples are determined (U/I) using this standard curve.

## Summary of protocol

- Reconstitute Calibrators
- Reconstitute QC, dilute Samples and QC 4×
- Add 100 µl Calibrators, QC and samples
- Add 50 µl Dissociating Solution
- Incubate at RT for 2 hours/300 rpm
- Wash plate 3 times
- Add 100 µl Substrate Solution
- Incubate at 37°C for 1.5 hour/no shaking!
- Add 100 µl Stop Solution
- Read absorbance and calculate results

## Related products

- TRAP 5 Human, Mouse Monoclonal Antibody, Clone: TRAP-01 RD182025110-01



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