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Product datasheet for DM2019

Tartrate Resistant Acid Phosphatase (ACP5) Mouse Monoclonal Antibody [Clone ID: TRAP-01]

Product data:

Product Type:	Primary Antibodies
Clone Name:	TRAP-01
Applications:	ELISA
Recommended Dilution:	**Enzyme Immunoassay.**
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant Human TRAP 5 expressed in*Sf9 cells.*
Specificity:	The Anti Human TRAP 5 Antibody, Clone: TRAP-01 is a mouse monoclonal antibody against TRAP 5.
Formulation:	0.05 M phosphate buffer, 0.1 M NaCl, pH 7.2. AZIDE FREE State: Purified State: Lyophilized purified IgG fraction Preservative: None
Reconstitution Method:	Restore with 1 ml of deionized water and let the lyophilized pellet dissolve completely. Slight turbidity may occur after reconstitution, which does not affect activity of the antibody. In this case clarify the solution by centrifugation.
Concentration:	lot specific
Purification:	Affinity Chromatography on Immobilized Protein G
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	acid phosphatase 5, tartrate resistant

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Database Link: Entrez Gene 54 Human
P13686

Background: TRAP 5 (serum band 5 tartrate-resistant acid phosphatase, TRACP 5; EC 3.1.3.2) is a glycoprotein of 35-37 kDa. TRAP 5 belongs to the most abundant enzymes in osteoclasts. It is expressed in certain differentiated cells of the mononuclear phagocyte system, particularly osteoclasts and alveolar macrophages, where it takes an active part in bone resorption process. High blood levels of TRAP 5 are usually associated with active bone remodelling. Increased serum levels are observed during normal bone growth among healthy children. Elevated serum TRAP levels have been detected in diseases characterized by increased bone resorption; Pagets
disease of the bone, hemodialysis, primary hyperparathyroidism, metastatic malignancies involving bone resorption, multiple myeloma and bilaterally ovariectomized women. Post-menopausal women have higher levels of serum than post-menopausal women on estrogen replacement therapy. Therefore specific determination of TRAP 5 activity can be essential for clinical assessment of bone metabolism.

Synonyms: Tartrate-resistant acid phosphatase type 5, TRAP5, TRAcP