

Datasheet for ABIN7505753

ACP5 Protein (AA 1-327) (His tag)



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Overview

Quantity:	100 µg
Target:	ACP5
Protein Characteristics:	AA 1-327
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ACP5 protein is labelled with His tag.

Product Details

Sequence:	Met 1-Pro 327
Characteristics:	A DNA sequence encoding the Mouse Acp5 protein (Q05117) (Met 1-Pro 327) was expressed with a C-His.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	ACP5
Alternative Name:	Acp5 (ACP5 Products)
Background:	<p>Abbreviation: Acp5</p> <p>Target Synonym: Tartrate-resistant acid phosphatase type 5,TR-AP,EC 3.1.3.2,Tartrate-resistant acid ATPase,TrATPase,Type 5 acid phosphatase</p> <p>Background: Tartrate-resistant acid phosphatase (TRACP) or acid phosphatase 5, tartrate</p>

Target Details

resistant (ACP5 or TRAP) is a glycosylated monomeric metalloenzyme expressed in mammals. TRACP is associated with osteoblast migration to bone resorption sites, and, once there, TRACP is believed to initiate osteoblast differentiation, activation, and proliferation. TRACP once considered to be just a histochemical marker of osteoclasts is now recognised to be a molecule of widespread occurrence with functions in both the skeleton and the immune system. Two forms of TRACP circulate in human blood, TRACP 5a derived from macrophages and dendritic cells, and TRACP-5b derived from osteoclasts. Recent data have demonstrated the utility of TRACP-5b as a marker of osteoclast number and bone resorption, and serum TRACP-5a as a marker of inflammatory conditions. TRACP is expressed by osteoclasts, macrophages, dendritic cells and a number of other cell types. It has a critical role in many biological processes including skeletal development, collagen synthesis and degradation, the mineralisation of bone, cytokine production by macrophages and dendritic cells, macrophage recruitment, dendritic cell maturation and a role in the development of Th1 responses.

Molecular Weight: Calculated MW: 35.86 kDa
Observed MW: 38 kDa

UniProt: [Q05117](#)

Pathways: [Transition Metal Ion Homeostasis](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4.
Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 12 months