ACP5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ACP5, Polyclonal Antibody
Full Product Name	ACP5 Conjugated Antibody
Product Gene Name	anti-ACP5 antibody
Product Synonym Names	TRAP; SPENCDI
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous level of total ACP5 protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	36,599 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (11685475..11689801, complement). Location: 19p13.2
OMIM	171640
3D Structure	ModBase 3D Structure for P13686
Immunogen	Recombinant protein of human ACP5.
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-ACP5 antibody	Most Applications
Application Notes for anti-ACP5 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-ACP5 antibody	This gene encodes an iron containing glycoprotein which catalyzes the conversion of orthophosphoric monoester to alcohol and orthophosphate. It is the most basic of the acid phosphatases and is the only form not inhibited by L (+)-tartrate.
Other Notes	Small volumes of anti-ACP5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ACP5 purchase	MBS9443794 is an antibody targeting ACP5. Also known as ACP5 Conjugated Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACP5. It may not necessarily be applicable to this product.

NCBI GI #	48146273
NCBI GeneID	54
NCBI Accession #	CAG33359.1
UniProt Primary Accession #	P13686
UniProt Secondary Accession #	Q2TAB1; Q6IAS6; Q9UCJ5; Q9UCJ6; Q9UCJ7; A8K3V2
UniProt Related Accession #	P13686
NCBI Official Full Name	ACP5
NCBI Official Synonym Full Names	acid phosphatase 5, tartrate resistant
NCBI Official Symbol	ACP5
NCBI Official Synonym Symbols	TRAP; SPENCDI
UniProt Protein Name	Tartrate-resistant acid phosphatase type 5
UniProt Synonym Protein Names	Tartrate-resistant acid ATPase; TrATPase; Type 5 acid phosphatase
Protein Family	Acyl carrier protein
UniProt Gene Name	ACP5
UniProt Synonym Gene Names	TR-AP; TrATPase
UniProt Entry Name	PPA5_HUMAN
NCBI Protein Information	tartrate-resistant acid phosphatase type 5; TrATPase; tartrate-resistant acid ATPase
NCBI Summary for ACP5	This gene encodes an iron containing glycoprotein which catalyzes the conversion of orthophosphoric monoester to alcohol and orthophosphate. It is the most basic of the acid phosphatases and is the only form not inhibited by L(+)-tartrate. [provided by RefSeq, Aug 2008]
UniProt Comments for ACP5	ACP5: Involved in osteopontin/bone sialoprotein dephosphorylation. Its expression seems to increase in certain pathological states such as Gaucher and Hodgkin diseases, the hairy cell, the B-cell, and the T-cell leukemias. Defects in ACP5 are the cause of spondyloenchondrodysplasia with immune dysregulation (SPENCDI). A disease characterized by vertebral and metaphyseal dysplasia, spasticity with cerebral calcifications, and strong predisposition to autoimmune diseases. The skeletal dysplasia is characterized by radiolucent and irregular spondylar and metaphyseal lesions that represent islands of chondroid tissue within bone. ACP5 inactivating mutations result in a functional excess of phosphorylated osteopontin causing deregulation of osteopontin signaling and consequential autoimmune disease. Belongs to the metallophosphoesterase superfamily. Purple acid phosphatase family. Protein type: Motility/polarity/chemotaxis; Phosphatase; EC 3.1.3.2; Cofactor and Vitamin Metabolism - riboflavin Chromosomal Location of Human Ortholog: 19p13.2 Cellular Component: lysosome; integral to membrane; cytosol Molecular Function: acid phosphatase activity; ferric iron binding; ferrous iron binding Biological Process: negative regulation of interleukin-12 production; vitamin metabolic process; negative regulation of nitric oxide biosynthetic process; response to lipopolysaccharide; negative regulation of interleukin-1 beta production; negative regulation of superoxide release; negative regulation of tumor necrosis factor production; riboflavin metabolic process; defense response to Gram-positive bacterium; dephosphorylation; response to cytokine stimulus; negative regulation of inflammatory response; water-soluble vitamin metabolic process; bone resorption Disease: Spondyloenchondrodysplasia With Immune Dysregulation

Research Articles on ACP5	**1.** The ACP5 gene is neither associated with the occurrence nor the curve severity of adolescent idiopathic scoliosis.
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