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PHOSPHO1 antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI15222

Product Information

Application	WB
Primary Accession	Q8TCT1
Other Accession	NM_001143804, NP_001137276
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Dog, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	29713

Additional Information

Gene ID	162466
Other Names	Phosphoethanolamine/phosphocholine phosphatase, 3.1.3.75, PHOSPHO1
Target/Specificity	This antibody is 100% homologous to both isoforms of human PHOSPHO1.
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-PHOSPHO1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	PHOSPHO1 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

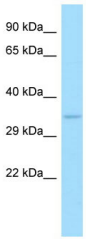
Name	PHOSPHO1 {ECO:0000303|PubMed:12464021, ECO:0000312|HGNC:HGNC:16815}
Function	Phosphatase that has a high activity toward phosphoethanolamine (PEA) and phosphocholine (PCho) (PubMed:15175005). Involved in the generation of inorganic phosphate for bone mineralization (By similarity). Acts in a non-redundant manner with PHOSPHO1 in skeletal mineralization: while PHOSPHO1 mediates the initiation of hydroxyapatite crystallization in the matrix vesicles (MVs), ALPL/TNAP catalyzes the spread of hydroxyapatite crystallization in the extracellular matrix (By similarity).
Cellular Location	Extracellular vesicle {ECO:0000250|UniProtKB:Q8R2H9}. Note=Localizes to

	special class of extracellular vesicles, named matrix vesicles (MVs), which are released by osteogenic cells. {ECO:0000250|UniProtKB:Q8R2H9}
Tissue Location	Expressed at sites of mineralization in bone and cartilage. Highly expressed in osteoblast cell line SaOS-2 which produces a mineralized matrix, but not in MG-63 cell line, which do not mineralize.

References

Houston B.,et al.Anim. Genet. 33:451-454(2002).
Roberts S.J.,et al.Biochem. Biophys. Res. Commun. 371:872-876(2008).
Zody M.C.,et al.Nature 440:1045-1049(2006).
Roberts S.J.,et al.Biochem. J. 382:59-65(2004).
Houston B.,et al.Bone 34:629-637(2004).

Images



Host: Rabbit
Target Name: PHOSPHO1
Antibody Dilution: 1.0µg/ml
Sample Tissue: Hela cell lysate

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.