Procollagen Type III (PC3) ELISA Kit for Pigeon

PRODUCT OVERVIEW

Product Name	Procollagen Type III (PC3), ELISA Kit
Full Product Name	Pigeon Procollagen Type III ELISA Kit
Product Gene Name	PC3 elisa kit
Species Reactivity	Pigeon
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	21,703 Da
OMIM	164010
3D Structure	ModBase 3D Structure for Q9HD42
Related Product Information for PC3 elisa kit	MBS077922 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Procollagen Type III (PC3) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing PC3. The ELISA analytical biochemical technique of the MBS077922 kit is based on PC3 antibody-PC3 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect PC3 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, PC3. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of PC3 elisa kit 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PC3. It may not necessarily be applicable to this product.

NCBI GI #	119587121
NCBI GeneID	5119
NCBI Accession #	EAW66717.1
UniProt Primary Accession #	Q9HD42
UniProt Secondary Accession #	Q14468; Q15779; Q96G31; A2RU09
UniProt Related Accession #	Q9HD42
NCBI Official Full Name	procollagen (type III) N-endopeptidase, isoform CRA_a, partial
NCBI Official Synonym Full Names	charged multivesicular body protein 1A
NCBI Official Symbol	CHMP1A
NCBI Official Synonym Symbols	PCH8; CHMP1; PRSM1; PCOLN3; VPS46A; VPS46-1
UniProt Protein Name	Charged multivesicular body protein 1a
UniProt Synonym Protein Names	Chromatin-modifying protein 1a; CHMP1a; Vacuolar protein sorting-associated protein 46-1
UniProt Gene Name	CHMP1A
UniProt Synonym Gene Names	CHMP1; KIAA0047; PCOLN3; PRSM1; CHMP1a; Vps46-1; hVps46-1

UniProt Entry Name	CHM1A_HUMAN
NCBI Protein Information	charged multivesicular body protein 1a; protease, metallo, 1, 33kD; chromatin modifying protein 1A; procollagen (type III) N-endopeptidase; vacuolar protein sorting-associated protein 46-1; charged multivesicular body protein 1/chromatin modifying protein 1
NCBI Summary for PC3	This gene encodes a member of the CHMP/Chmp family of proteins which are involved in multivesicular body sorting of proteins to the interiors of lysosomes. The initial prediction of the protein sequence encoded by this gene suggested that the encoded protein was a metallopeptidase. The nomenclature has been updated recently to reflect the correct biological function of this encoded protein. Several transcripts encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2012]
UniProt Comments for PC3	CHMP1A: Probable peripherally associated component of the endosomal sorting required for transport complex III (ESCRT-III) which is involved in multivesicular bodies (MVBs) formation and sorting of endosomal cargo proteins into MVBs. MVBs contain intraluminal vesicles (ILVs) that are generated by invagination and scission from the limiting membrane of the endosome and mostly are delivered to lysosomes enabling degradation of membrane proteins, such as stimulated growth factor receptors, lysosomal enzymes and lipids. The MVB pathway appears to require the sequential function of ESCRT-O, -I,-II and -III complexes. ESCRT- III proteins mostly dissociate from the invaginating membrane before the ILV is released. The ESCRT machinery also functions in topologically equivalent membrane fission events, such as the terminal stages of cytokinesis and the budding of enveloped viruses (HIV-1 and other lentiviruses). ESCRT-III proteins are believed to mediate the necessary vesicle extrusion and/or membrane fission activities, possibly in conjunction with the AAA ATPase VPS4. Involved in cytokinesis. Involved in recruiting VPS4A and/or VPS4B to the midbody of dividing cells. May also be involved in chromosome condensation. Targets the Polycomb group (PcG) protein BMI1/PCGF4 to regions of condensed chromatin. May play a role in stable cell cycle progression and in PcG gene silencing. Belongs to the SNF7 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Protease; Cell cycle regulation Chromosomal Location of Human Ortholog: 16q24.3 Cellular Component: condensed nuclear chromosome; nuclear matrix; early endosome; endomembrane system; microtubule organizing center Molecular Function: protein domain specific binding; protein binding; protein homodimerization activity; zinc ion binding; metallopeptidase activity Biological Process: vesicle-mediated transport; protein transport; cell separation during cytokinesis; transcription, DNA-dependent; negative regulation of transcription by glucose; mitotic chromosome condensation; vacuolar transport; cytokinesis; gene silencing; negative regulation of transcription, DNA-dependent; proteolysis; mitotic metaphase plate congression; nuclear organization and biogenesis Disease: Pontocerebellar Hypoplasia, Type 8
Research Articles on PC3	**1.** we identified Ser(179) and Ser(182) located in the C-terminal region of the CHMP1A as major phosphorylation sites that cause a mobility shift.
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