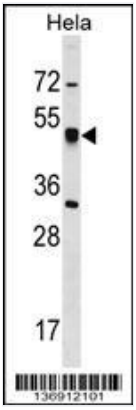
CRTAP Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CRTAP, Polyclonal Antibody
Full Product Name	CRTAP, NT (CRTAP, CASP, Cartilage-associated protein) (PE)
Product Gene Name	anti-CRTAP antibody
Product Synonym Names	CRTAP; CASP; Cartilage-associated protein
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	46,562 Da
OMIM	gene 610682
3D Structure	ModBase 3D Structure for O75718
Immunogen	CRTAP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 30-59 amino acids from the N-terminal region of human CRTAP.
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-CRTAP antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-CRTAP antibody	Western Blot (WB), FLISA
Application Notes for anti-CRTAP antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CRTAP antibody	The protein encoded by this gene is similar to the chicken and mouse CRTAP genes. The encoded protein is a scaffolding protein that may influence the activity of at least one member of the cytohesin/ARNO family in response to specific cellular stimuli. Defects in this gene are associated with osteogenesis imperfecta, a connective tissue disorder characterized by bone fragility and low bone mass.
Product References and Citations for anti-CRTAP antibody	Morello, R., et al. Curr Osteoporos Rep 8(2):77-83(2010). Li, G.H., et al. Osteoporos Int 21(6):1009-1020(2010). Fratzl-Zelman, N., et al. Bone 46(3):820-826(2010). Chang, W., et al. Hum. Mol. Genet. 19(2):223-234(2010). Marini, J.C., et al. Cell Tissue Res. 339(1):59-70(2010).

Other Notes	Small volumes of anti-CRTAP 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 CRTAP purchase	MBS6288966 is an antibody targeting CRTAP. Also known as CRTAP, NT (CRTAP, CASP, Cartilage-associated protein) (PE). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-CRTAP antibody
CRTAP Antibody (N-term) western blot analysis in Hela cell line lysates (35ug/lane).This demonstrates the CRTAP antibody detected the CRTAP protein (arrow).

ADDITIONAL DETAILS

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

NCBI GI #	5453601
NCBI GeneID	10491
NCBI Accession #	NP_006362.1
UniProt Primary Accession #	O75718
UniProt Secondary Accession #	B2RBL6
UniProt Related Accession #	O75718
GenBank Nucleotide #	NM_006371.4
NCBI Official Full Name	cartilage-associated protein
NCBI Official Synonym Full Names	cartilage associated protein
NCBI Official Symbol	CRTAP
NCBI Official Synonym Symbols	OI7; CASP; P3H5; LEPREL3
UniProt Protein Name	Cartilage-associated protein
Protein Family	Cartilage-associated protein
UniProt Gene Name	CRTAP
UniProt Synonym Gene Names	CASP
UniProt Entry Name	CRTAP_HUMAN
NCBI Protein Information	cartilage-associated protein; leprecan-like 3; prolyl 3-hydroxylase family member 5 (non-enzymatic)

UniProt Comments for CRTAP	CRTAP: Necessary for efficient 3-hydroxylation of fibrillar collagen prolyl residues. Defects in CRTAP are the cause of osteogenesis imperfecta type 7 (OI7). A connective tissue disorder characterized by short stature, short humeri and femora, coxa vara, white sclera, and the absence of dentinogenesis imperfecta. Multiple fractures are present at birth, and patients manifest moderate-severe bone fragility. Death may occurr in the perinatal period due to secondary respiratory insufficiency. Belongs to the leprecan family. Protein type: Extracellular matrix; Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 3p22.3 Cellular Component: proteinaceous extracellular matrix; extracellular space; endoplasmic reticulum lumen; endoplasmic reticulum Molecular Function: protein complex binding Biological Process: extracellular matrix organization and biogenesis; protein stabilization; spermatogenesis; peptidyl-proline hydroxylation to 3-hydroxy-L-proline Disease: Osteogenesis Imperfecta, Type Vii
Research Articles on CRTAP	**1.** An additional function of the rough endoplasmic reticulum protein complex prolyl 3-hydroxylase 1.cartilage-associated protein.cyclophilin B: the CXXXC motif reveals disulfide isomerase activity in vitro.
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