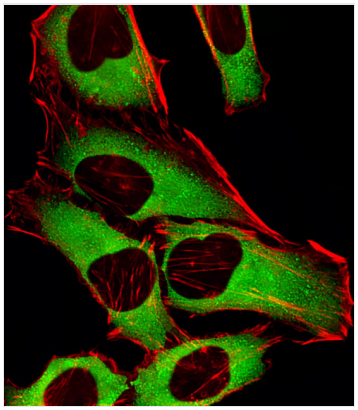
CRTAP Antibody – Rabbit Polyclonal

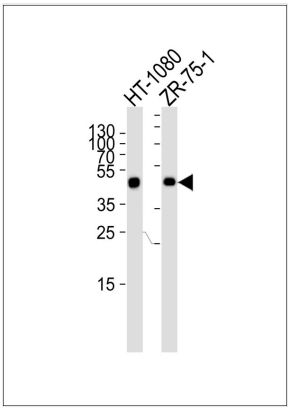
PRODUCT OVERVIEW

Product Name	CRTAP, Polyclonal Antibody
Full Product Name	CRTAP Antibody (N-term)
Product Gene Name	anti-CRTAP antibody
Product Synonym Names	Cartilage-associated protein; CRTAP; CASP
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This CRTAP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 31-59 amino acids from the N-terminal region of human CRTAP.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	CRTAP peptide (MBS9222232) is used for blocking the activity of CRTAP antibody (MBS9212556)
Molecular Weight	46562
Immunogen Sequence Positions	31-59
OMIM	605497
3D Structure	ModBase 3D Structure for O75718
Antigen Type	Synthetic Peptide
Crown Antibody	Yes
Antigen Source	HUMAN
Product Categories/Family for anti-CRTAP antibody	Crown Antibodies; Signal Transduction
Applications Tested/Suitable for anti-CRTAP antibody	Immunofluorescence (IF), ELISA (EIA), Western Blot (WB)
Application Notes for anti-CRTAP antibody	IF~~1:25 WB~~1:1000
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.

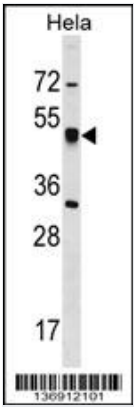
Product References and Citations for anti-CRTAP antibody	Morello, R., et al. Curr Osteoporos Rep 8(2):77-83(2010) Li, G.H., et al. Osteoporos Int 21(6):1009-1020(2010) Fratzl-Zelman, N., et al. Bone 46(3):820-826(2010) Chang, W., et al. Hum. Mol. Genet. 19(2):223-234(2010) Marini, J.C., et al. Cell Tissue 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	MBS9212556 is an antibody targeting CRTAP. Also known as CRTAP Antibody (N-term). Reactive in Human. Host: Rabbit.



Immunofluorescence (IF) of anti-CRTAP antibody
Fluorescent image of Hela cells stained with CRTAP Antibody (N-term). MBS9212556 was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor 555 conjugated with Phalloidin (red).



Western Blot (WB) of anti-CRTAP antibody
Western blot analysis of lysates from HT-1080, ZR-75-1 cell line (from left to right), using CRTAP Antibody (N-term). MBS9212556 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.



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
NCBI Summary for CRTAP	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. [provided by RefSeq, Jul 2008]
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: Secreted, signal peptide; Secreted; Extracellular matrix Chromosomal Location of Human Ortholog: 3p22.3 Cellular Component: extracellular space; proteinaceous extracellular matrix; 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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