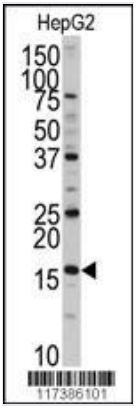
XTP3TPA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	XTP3TPA, Polyclonal Antibody
Full Product Name	XTP3TPA, NT (dCTP Pyrophosphatase 1, Deoxycytidine-triphosphatase 1, dCTPase 1, RS21C6, XTP3-transactivated Gene A Protein, DCTPP1, CDA03) (MaxLight 650)
Product Gene Name	anti-XTP3TPA antibody
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 MaxLight650.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human XTP3TPA.
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: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	21.2 kDa (194aa) confirmed by MALDI-TOF
3D Structure	ModBase 3D Structure for Q9H773
Immunogen	Synthetic peptide selected from the N-terminal region of human XTP3TPA (KLH).
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-XTP3TPA antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-XTP3TPA antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-XTP3TPA antibody	IHC: 1:10-1:50 FLISA: 1:1,000 WB: 1:50-1:100 Applications are based on unconjugated antibody.
Related Product Information for anti-XTP3TPA antibody	MBS6506309 is an antibody targeting XTP3TPA. Also known as XTP3TPA, NT (dCTP Pyrophosphatase 1, Deoxycytidine-triphosphatase 1, dCTPase 1, RS21C6, XTP3-transactivated Gene A Protein, DCTPP1, CDA03) (MaxLight 650). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-XTP3TPA antibody	1. Stelzl, U., Cell 122(6), 957-968 (2005). 2. Moroz, O.V., J. Mol. Biol. 347(2), 243-255 (2005).
Other Notes	Small volumes of anti-XTP3TPA 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.



Western Blot (WB) of anti-XTP3TPA antibody
Western blot analysis of anti-XTP3TPA Antibody (N-term) in HepG2 cell line lysates (35ug/lane). XTP3TPA(arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-XTP3TPA antibody
Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with XTP3TPA antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for XTP3TPA. It may not necessarily be applicable to this product.

NCBI GI #	13129100
NCBI GeneID	79077
NCBI Accession #	NP_077001
UniProt Primary Accession #	Q9H773
UniProt Related Accession #	Q9H773
GenBank Nucleotide #	NM_024096.1
NCBI Official Full Name	dCTP pyrophosphatase 1
NCBI Official Synonym Full Names	dCTP pyrophosphatase 1
NCBI Official Symbol	DCTPP1
NCBI Official Synonym Symbols	CDA03; RS21C6; XTP3TPA
UniProt Protein Name	dCTP pyrophosphatase 1
UniProt Synonym Protein Names	Deoxycytidine-triphosphatase 1; dCTPase 1; RS21C6; XTP3-transactivated gene A protein
UniProt Gene Name	DCTPP1
UniProt Synonym Gene Names	XTP3TPA; dCTPase 1
UniProt Entry Name	DCTP1_HUMAN
NCBI Protein Information	dCTP pyrophosphatase 1
NCBI Summary for XTP3TPA	The protein encoded by this gene is dCTP pyrophosphatase, which converts dCTP to dCMP and inorganic pyrophosphate. The encoded protein also displays weak activity against dTTP and dATP, but none against dGTP. This protein may be responsible for eliminating excess dCTP after DNA synthesis and may prevent overmethylation of CpG islands. Three transcript variants, one protein-coding and the other two non-protein coding, have been found for this gene. [provided by RefSeq, Dec 2015]

UniProt Comments for XTP3TPA	XTP3TPA: Hydrolyzes deoxynucleoside triphosphates (dNTPs) to the corresponding nucleoside monophosphates. Has a strong preference for modified dCTP. Activity is highest with 5-iodo-dCTP, followed by 5-bromo-dCTP, unmodified dCTP, 5-methyl-dCTP and 5-chloro-dCTP. Hydrolyzes 2-chloro-dATP and 2-hydroxy-dATP with lower efficiency, and has even lower activity with unmodified dATP, dTTP and dUTP (in vitro). Does not hydrolyze ATP, UTP, ITP, GTP, dADP, dCDP or dGTP. May protect DNA or RNA against the incorporation of non- canonical nucleotide triphosphates. May protect cells against inappropriate methylation of CpG islands by DNA methyltransferases. Protein type: EC 3.6.1.12 Chromosomal Location of Human Ortholog: 16p11.2 Cellular Component: cytosol Molecular Function: dCTP diphosphatase activity; pyrimidine deoxyribonucleotide binding; magnesium ion binding; nucleoside-triphosphate diphosphatase activity Biological Process: nucleoside triphosphate catabolic process; protein homotetramerization
Research Articles on XTP3TPA	**1.** DCTPP1 has a central role in the balance of dCTP and the metabolism of deoxycytidine analogues.
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