XPA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	XPA, Polyclonal Antibody
Full Product Name	XPA, CT (XPA, XPAC, DNA repair protein complementing XP-A cells, Xeroderma pigmentosum group A-complementing protein) (MaxLight 650)
Product Gene Name	anti-XPA antibody
Product Synonym Names	XPA; XPAC; DNA repair protein complementing XP-A cells; Xeroderma pigmentosum group A-complementing 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 MaxLight650.
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: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	31,368 Da
Chromosome Location	Chromosome: 9; NC_000009.11 (100437191..100459691, complement). Location: 9q22.3
OMIM	278700
3D Structure	ModBase 3D Structure for P23025
Immunogen	XPA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 184-213 amino acids from the C-terminal region of human XPA.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-XPA antibody	Antibodies; DNA Replication; Repair
Applications Tested/Suitable for anti-XPA antibody	Western Blot (WB), FLISA
Application Notes for anti-XPA antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-XPA antibody	This gene encodes a zinc finger protein involved in DNA excision repair. The encoded protein is part of the NER (nucleotide excision repair) complext which is responsible for repair of UV radiation-induced photoproducts and DNA adducts induced by chemical carcinogens. Mutations in this gene are associated with xeroderma pigmentosum complementation group A. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq].

Product References and Citations for anti-XPA antibody	Palli, D., et al. Mutagenesis 25(6):569-575(2010). Fan, W., et al. Mol. Cell 39(2):247-258(2010). Ho-Pun-Cheung, A., et al. Pharmacogenomics J. (2010). In press: Hsieh, Y.Y., et al. Anticancer Res. 30(6):2203-2208(2010). Jelonek, K., et al. J. Appl. Genet. 51(3):343-352(2010).
Other Notes	Small volumes of anti-XPA 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 XPA purchase	MBS6364003 is an antibody targeting XPA. Also known as XPA, CT (XPA, XPAC, DNA repair protein complementing XP-A cells, Xeroderma pigmentosum group A-complementing protein) (MaxLight 650). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	4507937
NCBI GeneID	7507
NCBI Accession #	NP_000371.1
UniProt Primary Accession #	P23025
UniProt Secondary Accession #	Q5T1U9; Q6LCW7; Q6LD02
UniProt Related Accession #	P23025
GenBank Nucleotide #	NM_000380.3
NCBI Official Full Name	DNA repair protein complementing XP-A cells
NCBI Official Synonym Full Names	xeroderma pigmentosum, complementation group A
NCBI Official Symbol	XPA
NCBI Official Synonym Symbols	XP1; XPAC
UniProt Protein Name	DNA repair protein complementing XP-A cells
UniProt Synonym Protein Names	Xeroderma pigmentosum group A-complementing protein
Protein Family	DNA repair protein
UniProt Gene Name	XPA
UniProt Synonym Gene Names	XPAC
UniProt Entry Name	XPA_HUMAN
NCBI Protein Information	DNA repair protein complementing XP-A cells; excision repair-controlling; xeroderma pigmentosum group A-complementing protein
NCBI Summary for XPA	This gene encodes a zinc finger protein involved in DNA excision repair. The encoded protein is part of the NER (nucleotide excision repair) complext which is responsible for repair of UV radiation-induced photoproducts and DNA adducts induced by chemical carcinogens. Mutations in this gene are associated with xeroderma pigmentosum complementation group A. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Mar 2009]

UniProt Comments for XPA	XPA: Involved in DNA excision repair. Initiates repair by binding to damaged sites with various affinities, depending on the photoproduct and the transcriptional state of the region. Required for UV-induced CHEK1 phosphorylation and the recruitment of CEP164 to cyclobutane pyrimidine dimmers (CPD), sites of DNA damage after UV irradiation. Interacts with GPN1 and RPA1. Interacts (via N-terminus) with CEP164 upon UV irradiation. Interacts with HERC2. Expressed in various cell lines and in skin fibroblasts. Belongs to the XPA family. Protein type: DNA repair, damage Chromosomal Location of Human Ortholog: 9q22.3 Cellular Component: nucleoplasm; Golgi apparatus; intercellular bridge; DNA replication factor A complex; cytoplasm; nucleus Molecular Function: protein domain specific binding; protein binding; protein homodimerization activity; metal ion binding; damaged DNA binding Biological Process: DNA damage response, signal transduction resulting in induction of apoptosis; nucleotide-excision repair; response to toxin; multicellular organism growth; nucleotide-excision repair, DNA damage removal; response to oxidative stress; DNA repair; response to UV Disease: Xeroderma Pigmentosum, Complementation Group A
Research Articles on XPA	**1.** APIM in XPA is a functional PCNA interacting motif.
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