XPA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	XPA, Polyclonal Antibody
Full Product Name	XPA Antibody
Product Gene Name	anti-XPA antibody
Product Synonym Names	DNA repair protein complementing XP-A cells; Xeroderma pigmentosum group A-complementing protein; XPA; XPAC
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
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
Applications Tested/Suitable for anti-XPA antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P), ELISA (EIA)
Related Product Information for anti-XPA antibody	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.
Product References and Citations for anti-XPA antibody	Tanaka K., et al.Nature 348:73-76 (1990).Kalnine N., et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.Humphray S.J., et al.Nature 429:369-374 (2004).Mural R.J., et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.Satokata I., et al.Gene 136:345-348 (1993).
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	MBS9232891 is an antibody targeting XPA. Also known as XPA Antibody. Reactive in Human, Mouse. 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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