

# Human XPA antibody

Catalog Number: ATGA0502

## PRODUCT INFORMATION

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**Catalog number**

ATGA0502

**Clone No.**

AT71H3

**Product type**

Monoclonal Antibody

**UnitProt No.**

P23025

**NCBI Accession No.**

NP\_000371

**Alternative Names**

DNA repair protein complementing XP-A cells, XP1, XPAC

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human XPA (1-273aa) purified from E. coli

**Isotype**

IgG1 kappa

**Purification Note**

By protein-A affinity chromatography

**Application**

ELISA, WB, ICC/IF

**Usage**

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

**Storage**

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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

XPA, also known as DNA repair protein complementing XP-A cells, belong to the XPA family. This protein is involved in DNA excision repair. It Initiates repair by binding to damaged sites with various affinities, depending on the photoproduct and the transcriptional state of the region. Defects in XPA are a cause of xeroderma pigmentosum complementation group A (XP-A), which is a rare human autosomal recessive disease characterized by solar sensitivity, high predisposition for developing cancers on areas exposed to sunlight and, in some cases, neurological abnormalities.

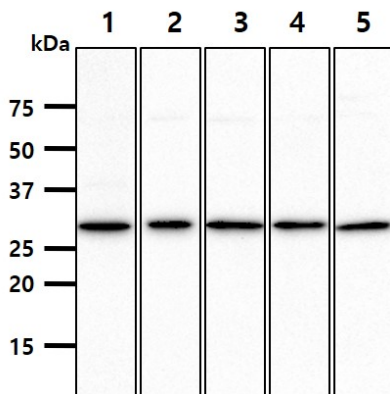
### General References

Pan Y.R., et al. (2009) Cell Cycle 8:655-664.

James, et al. (2005) Andrews Diseases of the Skin: Clinical Dermatology. (10th ed.). Saunders.

## DATA

### Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human XPA antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: SW480 cell lysate

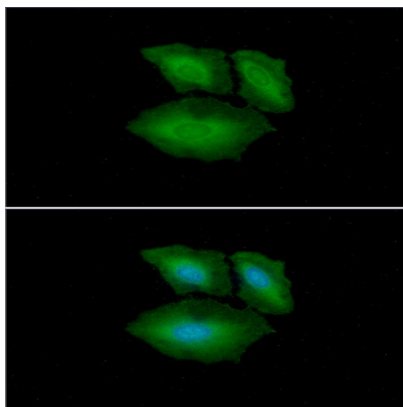
Lane 2.: K562 cell lysate

Lane 3.: MCF7 cell lysate

Lane 4.: LNCaP cell lysate

Lane 5.: Raji cell lysate

### Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of XPA in HaLa cells. The cell was stained with ATGA0502 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).