

Rabbit anti-Human XPA Polyclonal Antibody | anti-XPA antibody

Anti-XPA Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127042	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

XPA; Polyclonal Antibody; Anti-XPA Antibody Picoband; hepatocyte growth factor-regulated tyrosine kinase substrate; Hepatocyte growth factor-regulated tyrosine kinase substrate; Hrs; Protein pp110; HGS; HRS; anti-XPA antibody

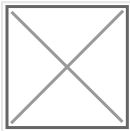
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Ubiquitous expression in adult and fetal tissues with higher expression in testis and peripheral blood leukocytes.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-XPA antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human XPA recombinant protein (Position: D5-M273).
Subcellular Localization	Early endosome membrane. Peripheral membrane protein. Cytoplasmic side. Multivesicular body membrane. Cytoplasm
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Involved in intracellular signal transduction mediated by cytokines and growth factors. When associated with STAM, it suppresses DNA signaling upon stimulation by IL-2 and GM-CSF. Could be a effector of PI3-kinase in vesicular pathway via early endosomes and may regulate trafficking to early and late endosomes by recruiting clathrin. May concentrate ubiquitinated receptors within clathrin-coated regions. Involved in down-regulation of receptor tyrosine kinase via multivesicular body (MVBs) when complexed with STAM (ESCRT-0 complex). The ESCRT-0 complex binds ubiquitin and acts as sorting machinery that recognizes ubiquitinated receptors and transfers them to further sequential lysosomal sorting/trafficking processes. May contribute to the efficient recruitment of SMADs to the activin receptor complex. Involved in receptor recycling via its association with the CART complex, a multiprotein complex required for efficient transferrin receptor recycling but not for EGFR degradation.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of 293T cells using anti-XPA antibody (AAA127042).Overlay histogram showing 293T cells stained with AAA127042 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-XPA Antibody (AAA127042, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of XPA using anti-XPA antibody (AAA127042).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human 293T whole cell lysates,Lane 2: human Hela whole cell lysates,Lane 3: human MCF-7 whole cell lysates,Lane 4: human A549 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-XPA antigen affinity purified polyclonal antibody (#AAA127042) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for XPA at approximately 39 kDa. The expected band size for XPA is at 31 kDa.



IF (Immunofluorescence)

Figure 2. IF analysis of XPA using anti-XPA antibody (AAA127042) and anti-Beta Tubulin antibody (M01857-3).XPA was detected in immunocytochemical section of Hela cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-XPA Antibody (AAA127042) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and DyLight488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-XPA antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-XPA antibody	Primary Antibodies; Growth Factors/Hormones; Metabolism; Metabolism Processes; Pathways and Processes; Response To Hypoxia; Signal Transduction
References	1. Li L, Elledge SJ, Peterson CA, Bales ES, Legerski RJ (May 1994). "Specific association between the human DNA repair proteins XPA and ERCC1". Proceedings of the National Academy of Sciences of the United States of America. 91 (11): 5012-6. 2. Nagai A, Saijo M, Kuraoka I, Matsuda T, Kodo N, Nakatsu Y, Mimaki T, Mino M, Biggerstaff M, Wood RD (Jun 1995). "Enhancement of damage-specific DNA binding of XPA by interaction with the ERCC1 DNA repair protein". Biochemical and Biophysical Research Communications. 211 (3): 960-6.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507937
NCBI GeneID	7507
NCBI Accession #	NP_000371.1
NCBI GenBank Nucleotide #	NM_000380.3
UniProt Accession #	P23025; Q5T1U9; Q6LCW7; Q6LD02
Molecular Weight	31,368 Da
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
NCBI Protein Information	DNA repair protein complementing XP-A cells; excision repair-controlling; xeroderma pigmentosum group A-complementing protein
UniProt Protein Name	DNA repair protein complementing XP-A cells
UniProt Gene Name	XPA
UniProt Synonym Gene Names	XPAC
UniProt Entry Name	XPA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/xpa-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127042>