Rabbit XPD/ERCC2 Polyclonal Antibody | anti-ERCC2 antibody

Anti-XPD/ERCC2 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126059	**Rabbit**	**Human, Mouse, Rat**	**ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot**

PRODUCT SYNONYMS

XPD/ERCC2; Polyclonal Antibody; Anti-XPD/ERCC2 Antibody Picoband; anti-ERCC2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-ERCC2 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human XPD/ERCC2 recombinant protein (Position: E79-A295).
Preparation and Storage	Store 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.

IMAGES

FCM/FACS (Flow Cytometry)
Figure 5. Flow Cytometry analysis of THP-1 cells using anti-XPD/ERCC2 antibody (AAA126059).Overlay histogram showing THP-1 cells stained with AAA126059 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-XPD/ERCC2 Antibody (AAA126059, 1 ug/1x10^6 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 (1 ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

IHC (Immunohistochemistry)
Figure 4. IHC analysis of XPD/ERCC2 using anti-XPD/ERCC2 antibody (AAA126059).XPD/ERCC2 was detected in a paraffin-embedded section of rat testis tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-XPD/ERCC2 Antibody (AAA126059) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

IHC (Immunohistochemisry)
Figure 3. IHC analysis of XPD/ERCC2 using anti-XPD/ERCC2 antibody (AAA126059).XPD/ERCC2 was detected in a paraffin-embedded section of mouse testis tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-XPD/ERCC2 Antibody (AAA126059) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

IHC (Immunohiostchemistry)
Figure 2. IHC analysis of XPD/ERCC2 using anti-XPD/ERCC2 antibody (AAA126059).XPD/ERCC2 was detected in a paraffin-embedded section of human bladder epithelial carcinom tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-XPD/ERCC2 Antibody (AAA126059) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

WB (Western Blot)
Figure 1. Western blot analysis of XPD/ERCC2 using anti-XPD/ERCC2 antibody (AAA126059).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 K562 whole cell lysates,Lane 2: human SiHa whole cell lysates,Lane 3: human HepG2 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-XPD/ERCC2 antigen affinity purified polyclonal antibody (#AAA126059) at 0.5 ug/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 XPD/ERCC2 at approximately 87 kDa. The expected band size for XPD/ERCC2 is at 80 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ERCC2 antibody	ERCC2, or XPD is a protein involved in transcription-coupled nucleotide excision repair. The nucleotide excision repair pathway is a mechanism to repair damage to DNA. The protein encoded by this gene is involved in transcription-coupled nucleotide excision repair and is an integral member of the basal transcription factor BTF2/TFIIH complex. The gene product has ATP-dependent DNA helicase activity and belongs to the RAD3/XPD subfamily of helicases. Defects in this gene can result in three different disorders, the cancer-prone syndrome xeroderma pigmentosum complementation group D, trichothiodystrophy, and Cockayne syndrome. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Product Categories/Family for anti-ERCC2 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	119540
NCBI GeneID	2068
UniProt Accession #	P18074; Q2TB78; Q2YDY2; Q7KZU6; Q8N721
Molecular Weight	760
NCBI Official Full Name	TFIIH basal transcription factor complex helicase XPD subunit
NCBI Official Synonym Full Names	excision repair cross-complementation group 2
NCBI Official Symbol	ERCC2
NCBI Official Synonym Symbols	EM9; TTD; XPD; COFS2; TFIIH

NCBI Protein Information	TFIIH basal transcription factor complex helicase XPD subunit; CXPD; BTF2 p80; TFIIH p80; TFIIH 80 kDa subunit; DNA excision repair protein ERCC-2; DNA repair protein complementing XP-D cells; basic transcription factor 2 80 kDa subunit; xeroderma pigment
UniProt Protein Name	TFIIH basal transcription factor complex helicase XPD subunit
UniProt Gene Name	**ERCC2**
UniProt Synonym Gene Names	XPD; XPDC; BTF2 p80; TFIIH 80 kDa subunit; TFIIH p80
UniProt Entry Name	ERCC2_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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