Product Name: **KD-Validated XPD Recombinant Rabbit Monoclonal Antibody**
Catalog #: **KVAb01655**
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 86.9kDa

Antigen Information

Gene Name	ERCC2
Alternative Names	ERCC2; ERCC Excision Repair 2, TFIIH Core Complex Helicase Subunit; EM9; XPD; Excision Repair Cross-Complementing Rodent Repair Deficiency, Complementation Group 2; General Transcription And DNA Repair Factor IIH Helicase Subunit XPD; TFIIH Basal Transcription Factor Complex Helicase XPB Subunit; TFIIH Basal Transcription Factor Complex 80 KDa Subunit; Xeroderma Pigmentosum Group D-Complementing Protein; Excision Repair Cross-Complementation Group 2; Xeroderma Pigmentosum Complementary Group D; DNA Repair Protein Complementing XP-D Cells; Basic Transcription Factor 2 80 KDa Subunit; DNA Excision Repair Protein ERCC-2; TFIIH 80 KDa Subunit; TFIIH Subunit XPD; MGC102762; MGC126218; MGC126219; TFIIH P80; BTF2 P80; CXPD; MAG; Excision Repair Cross-Complementing Rodent Repair Deficiency, Complementation Group 2 Protein; TFIIH Basal

	Transcription Factor Complex Helicase XPD Subunit; TFIIH Basal Transcription Factor Complex Helicase Subunit; EC 3.6.4.12; EC 3.6.1; COFS2; TFIIH; TTD1; XPDC; TTD
Gene ID	2068.0
SwissProt ID	P18074
Immunogen	A synthesized peptide derived from human XPD

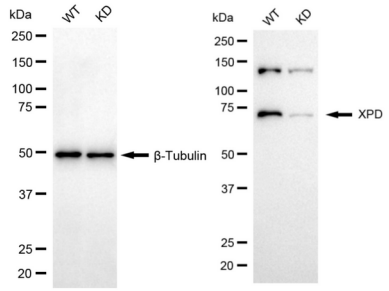
Background

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. [provided by RefSeq, Aug 2008]

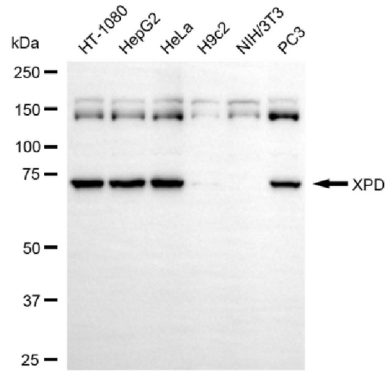
Research Area

Epigenetics and Nuclear Signaling

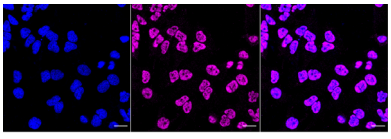
Image Data



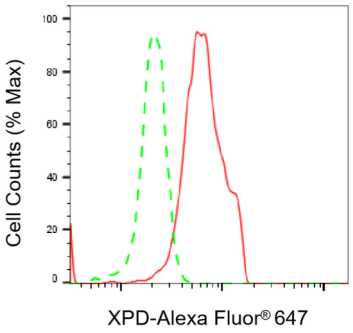
Western blotting analysis using XPD antibody (KVAb01655). XPD expression in wild-type (WT) and ERCC2 knockdown (KD) 293T cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with XPD antibody (KVAb01655, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using XPD antibody (KVAb01655). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with XPD antibody (KVAb01655, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells with XPD antibody (KVAb01655, 1:1,000). Nuclei were stained blue with DAPI; XPD was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of XPD expression in HeLa cells using XPD antibody (KVAb01655, 1:2,000). Green, isotype control; red, XPD.