

Human Xeroderma Pigmentosum, Complementation Group G (XPG) ELISA Kit | XPG elisa kit

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CATALOG # AAA139414	REACTIVITY Human
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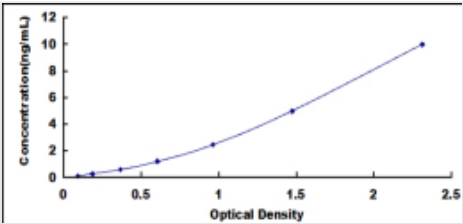
PRODUCT SYNONYMS

Xeroderma Pigmentosum; Complementation Group G (XPG); Human Xeroderma Pigmentosum; Complementation Group G (XPG) ELISA Kit; ERCC2; ERCC5; UVDR; XPGC; Excision Repair Cross-Complementing Rodent Repair Deficiency 5; Cockayne Syndrome; DNA repair protein complementing XP-G cells; XPG elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Xeroderma Pigmentosum, Complementation Group G (XPG). No significant cross-reactivity or interference between Xeroderma Pigmentosum, Complementation Group G (XPG) and analogues was observed.
Sequence Length	232
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	0.128ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Xeroderma Pigmentosum, Complementation Group G (XPG) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Xeroderma Pigmentosum, Complementation Group G (XPG) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for XPG elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Xeroderma Pigmentosum, Complementation Group G (XPG). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Xeroderma Pigmentosum, Complementation Group G (XPG). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Xeroderma Pigmentosum, Complementation Group G (XPG), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Xeroderma Pigmentosum, Complementation Group G (XPG) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for XPG elisa kit	Developmental science; Dermatology

NCBI AND UNIPROT INFORMATION

NCBI GI #	9587154
NCBI GeneID	2073
UniProt Accession #	P28715; Q5JUS4; Q5JUS5; Q7Z2V3; Q8IZL6; Q8N1B7; Q9HD59; Q9HD60; A6NGT4
Molecular Weight	27,259 Da
NCBI Official Full Name	xeroderma pigmentosum complementation group G protein splice variant
NCBI Official Synonym Full Names	excision repair cross-complementation group 5
NCBI Official Symbol	ERCC5
NCBI Official Synonym Symbols	XPG; UVDR; XPGC; COFS3; ERCM2; ERCC5-201
NCBI Protein Information	DNA repair protein complementing XP-G cells
UniProt Protein Name	DNA repair protein complementing XP-G cells
UniProt Gene Name	ERCC5
UniProt Synonym Gene Names	ERCM2; XPG; XPGC
UniProt Entry Name	ERCC5_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.