

Human DNA Repair Protein XRCC2 (XRCC2) ELISA Kit | XRCC2 elisa kit

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CATALOG #
AAA330241

REACTIVITY
Human

PRODUCT SYNONYMS

DNA Repair Protein XRCC2 (XRCC2); Human DNA Repair Protein XRCC2 (XRCC2) ELISA Kit; XRCC2; DKFZp781P0919; DNA repair protein XRCC2; RAD51-like; X-ray repair cross complementing protein 2; X-ray repair; complementing defective; repair in Chinese hamster; XRCC2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human DNA repair protein XRCC2 (XRCC2) ELISA Kit has high sensitivity and excellent specificity for detection of Human XRCC2. No significant cross-reactivity or interference between Human XRCC2 and analogues was observed.
Sequence Length	280
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human DNA repair protein XRCC2 (XRCC2) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for XRCC2 elisa kit	Description: This Human DNA repair protein XRCC2 (XRCC2) ELISA Kit employs a two-site sandwich ELISA to quantitate XRCC2 in samples. An antibody specific for XRCC2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any XRCC2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for XRCC2 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of XRCC2 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: XRCC2participates in homologous recombination to maintain chromosome stability and repair DNA damage. This gene is involved in the repair of DNA double-strand breaks by homologous recombination and it functionally complements Chinese hamster irs1, a repair-deficient mutant that exhibits hypersensitivity to a number of different DNA-damaging agents.Hamster cells deficient in XRCC2 showed a more than 100-fold decrease in homologous recombination induced by double-strand breaks compared with the parental cell line. This defect was corrected to almost wildtype levels by transient transfection with a plasmid expressing XRCC2. The repair defect in XRCC2 mutant cells appeared to be restricted to recombinational repair because nonhomologous end joining was normal.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4885657
NCBI GeneID	7516
NCBI Accession #	NP_005422.1
NCBI GenBank Nucleotide #	NP_005422.1
UniProt Accession #	O43543
NCBI Official Full Name	DNA repair protein XRCC2
NCBI Official Synonym Full Names	X-ray repair cross complementing 2
NCBI Official Symbol	XRCC2
NCBI Official Synonym Symbols	FANCU
NCBI Protein Information	DNA repair protein XRCC2
UniProt Protein Name	DNA repair protein XRCC2
UniProt Gene Name	XRCC2
UniProt Entry Name	XRCC2_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.