X-Ray Repair Cross Complementing 6 (XRCC6) ELISA Kit for Pigeon

PRODUCT OVERVIEW

Product Name	X-Ray Repair Cross Complementing 6 (XRCC6), ELISA Kit
Full Product Name	Pigeon X-Ray Repair Cross Complementing 6 ELISA Kit
Product Gene Name	XRCC6 elisa kit
Species Reactivity	Pigeon
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	69,477 Da
OMIM	194360
3D Structure	ModBase 3D Structure for P18887
Related Product Information for XRCC6 elisa kit	MBS093068 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the X-Ray Repair Cross Complementing 6 (XRCC6) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing XRCC6. The ELISA analytical biochemical technique of the MBS093068 kit is based on XRCC6 antibody-XRCC6 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect XRCC6 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, XRCC6. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of XRCC6 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for XRCC6. It may not necessarily be applicable to this product.

NCBI GI #	62087142
NCBI GeneID	7515
NCBI Accession #	BAD92018.1
UniProt Primary Accession #	P18887
UniProt Secondary Accession #	Q6IBS4; Q9HCB1
UniProt Related Accession #	P18887
NCBI Official Full Name	X-ray repair cross complementing protein 1 variant, partial
NCBI Official Synonym Full Names	X-ray repair complementing defective repair in Chinese hamster cells 1
NCBI Official Symbol	XRCC1
NCBI Official Synonym Symbols	RCC
UniProt Protein Name	DNA repair protein XRCC1
UniProt Synonym Protein Names	X-ray repair cross-complementing protein 1
Protein Family	X-ray repair cross-complementing protein

UniProt Gene Name	XRCC1
UniProt Entry Name	XRCC1_HUMAN
NCBI Protein Information	DNA repair protein XRCC1; X-ray repair cross-complementing protein 1
NCBI Summary for XRCC6	The protein encoded by this gene is involved in the efficient repair of DNA single-strand breaks formed by exposure to ionizing radiation and alkylating agents. This protein interacts with DNA ligase III, polymerase beta and poly (ADP-ribose) polymerase to participate in the base excision repair pathway. It may play a role in DNA processing during meiogenesis and recombination in germ cells. A rare microsatellite polymorphism in this gene is associated with cancer in patients of varying radiosensitivity. [provided by RefSeq, Jul 2008]
UniProt Comments for XRCC6	XRCC1: Corrects defective DNA strand-break repair and sister chromatid exchange following treatment with ionizing radiation and alkylating agents. Homodimer. Interacts with polynucleotide kinase (PNK), DNA polymerase-beta (POLB) and DNA ligase III (LIG3). Interacts with APTX and APLF. Interacts with APEX1; the interaction is induced by SIRT1 and increases with the acetylated form of APEX1. Protein type: DNA repair, damage Chromosomal Location of Human Ortholog: 19q13.2 Cellular Component: nucleoplasm; nucleus Molecular Function: protein binding; enzyme binding; damaged DNA binding Biological Process: single strand break repair; base-excision repair; DNA repair
Research Articles on XRCC6	**1.** meta-analysis indicate that XRCC1 Arg399Gln polymorphism may be associated with poor clinical outcomes in gastric cancer patients treated with oxaliplatin-based chemotherapy
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