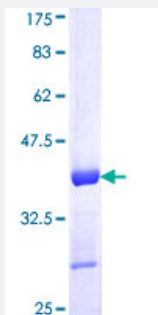


XRCC1 (Human) Recombinant Protein (Q01)

Catalog # H00007515-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human XRCC1 partial ORF (NP_006288, 534 a.a. - 633 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	LPVPELPDFFQGKHFFLYGEFPGDERRKLIRYVTAFNGELEDYMSDRVQFVITAQEWDPSEFEAL MDNPSLAFVRPRWIYSCNEKQKLLPHQLYGVVPQA
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Interspecies Antigen Sequence	Mouse (93)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — XRCC1

Entrez GeneID	7515
GeneBank Accession#	NM_006297
Protein Accession#	NP_006288
Gene Name	XRCC1
Gene Alias	RCC
Gene Description	X-ray repair complementing defective repair in Chinese hamster cells 1
Omim ID	194360
Gene Ontology	Hyperlink
Gene Summary	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 meiosis and recombination in germ cells. A rare microsatellite polymorphism in this gene is associated with cancer in patients of varying radiosensitivity. [provided by RefSeq]
Other Designations	DNA repair protein XRCC1 X-ray repair cross complementing protein 1 X-ray-repair, complementing defective, repair in Chinese hamster

Pathway

- [Base excision repair](#)

Disease

- [Acquired Immunodeficiency Syndrome](#)
- [Acute Disease](#)
- [Adenocarcinoma](#)
- [Adenoma](#)
- [Adenomyoma](#)
- [Alzheimer disease](#)
- [Amyotrophic lateral sclerosis](#)
- [Arthritis](#)
- [Ataxia telangiectasia](#)
- [Azoospermia](#)
- [Barrett Esophagus](#)
- [Biliary Tract Neoplasms](#)
- [Bone Neoplasms](#)
- [Brain Ischemia](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Diseases](#)
- [Breast Neoplasms](#)
- [Burkitt lymphoma](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Carotid Stenosis](#)
- [Cataract](#)
- [Cerebrovascular Accident](#)

- [Cervical Intraepithelial Neoplasia](#)
- [Chromosome Aberrations](#)
- [Chromosome Breakage](#)
- [Chronic Disease](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Cocarcinogenesis](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Cystic Fibrosis](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [DNA Damage](#)
- [Edema](#)
- [Endometrial Neoplasms](#)
- [Endometriosis](#)
- [Esophageal Neoplasms](#)
- [Esophagitis](#)
- [Fibrosis](#)
- [Gallbladder Neoplasms](#)
- [Gallstones](#)
- [Gastritis](#)
- [Gastrointestinal Neoplasms](#)

- [Genetic Predisposition to Disease](#)
- [Genital Neoplasms](#)
- [Genomic Instability](#)
- [Glaucoma](#)
- [Glioma](#)
- [Graft vs Host Disease](#)
- [Graves Disease](#)
- [Head and Neck Neoplasms](#)
- [Heartburn](#)
- [Helicobacter Infections](#)
- [Hematologic Diseases](#)
- [Hematologic Neoplasms](#)
- [Hemorrhage](#)
- [Hepatitis](#)
- [Hepatitis B](#)
- [Hodgkin Disease](#)
- [Infertility](#)
- [Kidney Failure](#)
- [Kidney Neoplasms](#)
- [Laryngeal Neoplasms](#)
- [Leiomyoma](#)
- [Leukemia](#)
- [Leukoplakia](#)
- [Liver Cirrhosis](#)
- [Liver Neoplasms](#)
- [Lung carcinoma](#)

- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Macular Degeneration](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Mental Status Schedule](#)
- [Mesothelioma](#)
- [Micronuclei](#)
- [Microsatellite Instability](#)
- [Mouth Abnormalities](#)
- [Mouth Neoplasms](#)
- [Multiple Sclerosis](#)
- [Nasopharyngeal Neoplasms](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neuroma](#)
- [Neutropenia](#)
- [Obesity](#)
- [Occupational Diseases](#)

- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Papillomavirus Infections](#)
- [Pharyngeal Neoplasms](#)
- [Pleural Neoplasms](#)
- [Precancerous Conditions](#)
- [Precursor B-Cell Lymphoblastic Leukemia-Lymphoma](#)
- [Pre-Eclampsia](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Radiation Injuries](#)
- [Radiation Pneumonitis](#)
- [Rectal Neoplasms](#)
- [Recurrence](#)
- [Salivary Gland Neoplasms](#)
- [Sarcoma](#)
- [Schizophrenia](#)
- [Skin Diseases](#)
- [Skin Neoplasms](#)
- [Spinal Dysraphism](#)
- [Stomach Neoplasms](#)
- [Sunburn](#)
- [Testicular Neoplasms](#)

- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Translocation](#)
- [Ureteral Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Urologic Diseases](#)
- [Urologic Neoplasms](#)
- [Uterine Cervical Neoplasms](#)
- [Uterine Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)
- [Xeroderma Pigmentosum](#)