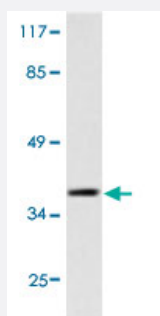


XRCC3 polyclonal antibody

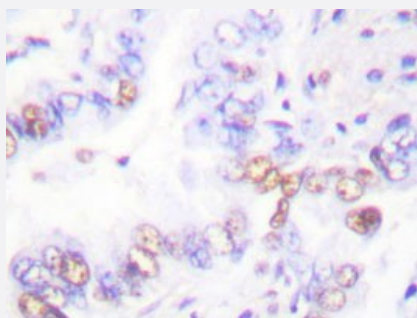
Catalog # PAB24835 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of 293 cell lysate (treated with serum 10% 15min) with XRCC3 polyclonal antibody (Cat # PAB24835).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human brain tissue using XRCC3 polyclonal antibody (Cat # PAB24835).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of XRCC3.
Immunogen	A synthetic peptide corresponding to XRCC3.
Host	Rabbit
Theoretical MW (kDa)	38
Reactivity	Human
Specificity	XRCC3 polyclonal antibody detects endogenous levels of XRCC3 protein.
Form	Liquid

Purification	Antigen affinity purification
Concentration	1 mg/mL
Purity	> 95% by SDS-PAGE
Recommend Usage	Western Blot (1:500-1000) Immunohistochemistry (1:50-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In 1x PBS, pH 7.2 (0.05% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of 293 cell lysate (treated with serum 10% 15min) with XRCC3 polyclonal antibody (Cat # PAB24835).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human brain tissue using XRCC3 polyclonal antibody (Cat # PAB24835).

Gene Info — XRCC3

Entrez GeneID	7517
Gene Name	XRCC3
Gene Alias	-
Gene Description	X-ray repair complementing defective repair in Chinese hamster cells 3
Omim ID	600675
Gene Ontology	Hyperlink

Gene Summary

This gene encodes a member of the RecA/Rad51-related protein family that participates in homologous recombination to maintain chromosome stability and repair DNA damage. This gene functionally complements Chinese hamster irs1SF, a repair-deficient mutant that exhibits hypersensitivity to a number of different DNA-damaging agents and is chromosomally unstable. A rare microsatellite polymorphism in this gene is associated with cancer in patients of varying radiosensitivity. Alternatively spliced transcript variants encoding the same protein have been identified. [provided by RefSeq]

Other Designations

DNA repair protein XRCC3|RAD51-like|X-ray repair cross complementing protein 3|X-ray-repair, complementing defective, repair in Chinese hamster

Publication Reference

- [RAD51C-XRCC3 structure and cancer patient mutations define DNA replication roles.](#)

Michael A Longo, Sunetra Roy, Yue Chen, Karl-Heinz Tomaszowski, Andrew S Arvai, Jordan T Pepper, Rebecca A Boisvert, Selvi Kunnimalaiyaan, Caezanne Keshvani, David Schild, Albino Bacolla, Gareth J Williams, John A Tainer, Katharina Schlacher.

Nature Communications 2023 Jul; 14(1):4445.

Application: PLA, Human, HAP1 cell

Pathway

- [Homologous recombination](#)

Disease

- [Adenocarcinoma](#)
- [Adenoma](#)
- [Astrocytoma](#)
- [Ataxia telangiectasia](#)
- [Barrett Esophagus](#)
- [Biliary Tract Neoplasms](#)
- [Bone Neoplasms](#)
- [Brain Neoplasms](#)

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cervical Intraepithelial Neoplasia](#)
- [Chromosome Aberrations](#)
- [Chromosome Breakage](#)
- [Chronic Disease](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Diabetes Mellitus](#)
- [Diarrhea](#)
- [Disease Progression](#)
- [DNA Damage](#)
- [Edema](#)
- [Endometrial Neoplasms](#)
- [Esophageal Neoplasms](#)
- [Fibrosis](#)
- [Gastritis](#)
- [Genetic Predisposition to Disease](#)
- [Genital Neoplasms](#)
- [Glioblastoma](#)
- [Glioma](#)

- [Head and Neck Neoplasms](#)
- [Hematologic Diseases](#)
- [Hematologic Neoplasms](#)
- [Hemorrhage](#)
- [Hodgkin Disease](#)
- [Kidney Failure](#)
- [Kidney Neoplasms](#)
- [Laryngeal Neoplasms](#)
- [Leukemia](#)
- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Mesothelioma](#)
- [Micronuclei](#)
- [Mouth Abnormalities](#)
- [Mouth Neoplasms](#)
- [Multiple Myeloma](#)
- [Multiple Sclerosis](#)
- [Myelodysplastic Syndromes](#)
- [Myocardial Infarction](#)
- [Nasopharyngeal Neoplasms](#)

- [Neoplasm Invasiveness](#)
- [Neoplasm Metastasis](#)
- [Neoplasms](#)
- [Neuroma](#)
- [Neutropenia](#)
- [Nevus](#)
- [Occupational Diseases](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Papillomavirus Infections](#)
- [Pharyngeal Neoplasms](#)
- [Pleural Neoplasms](#)
- [Precancerous Conditions](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Radiation Injuries](#)
- [Radiation Pneumonitis](#)
- [Radiodermatitis](#)
- [Rectal Neoplasms](#)
- [Recurrence](#)
- [Sarcoma](#)
- [Skin Diseases](#)

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