Datasheet for ABIN7540523

anti-XRCC1 antibody (N-Term)

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Overview

Quantity:	25 µL
Target:	XRCC1
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Chicken
Clonality:	Polyclonal
Conjugate:	This XRCC1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), ELISA, Fluorescence Microscopy (FM)

Product Details

Purpose:	XRCC1 Antibody
Immunogen:	Anti-XRCC1 antibody was prepared from eggs of chickens laid after repeated immunizations with a synthetic peptide corresponding to a N-Terminal portion of human XRCC1 conjugated to Keyhole Limpet Hemocyanin (KLH). A BLAST analysis was used to suggest cross-reactivity with the antigen based on 100% homology with the immunizing sequence to human and 91% to mouse, rat, and Chinese hamster.
Isotype:	IgG
Cross-Reactivity (Details):	This purified antibody is directed against human XRCC1.
Purification:	This product is an IgY fraction antibody purified from monospecific chicken egg yolks by a multi-step process which includes selective precipitation and salt fractionation followed by extensive dialysis against the buffer stated above.

Product Details

Sterility:	Sterile filtered

Target Details

Target:	XRCC1
Alternative Name:	XRCC1 (XRCC1 Products)
Background:	Chicken Anti-X-Ray Repair Cross Complementing 1 Antibody, X-Ray Repair Complementing Defective Repair In Chinese Hamster Cells 1, X-Ray Repair Cross-Complementing Protein 1, DNA Repair Protein XRCC1, SCAR26, RCC,XRCC1 (X-Ray Repair Cross Complementing 1) 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. Diseases associated with XRCC1 include Spinocerebellar Ataxia, Autosomal Recessive 26 and Gastric Cardia Carcinoma. Anti-XRCC1 Antibody is useful for researchers interested in Cancer research and DNA repair.
Gene ID:	7515
NCBI Accession:	NP_006288
UniProt:	P18887
Pathways:	DNA Damage Repair

Application Details

Application Notes:	ELISA_Dilution: 1:10,000 - 1:50,000 IF_Microscopy_Dilution: 10 µg/mL Western_Blot_Dilution: 1:500-1:1000
Comment:	Anti-XRCC1 Antibody has been tested in immunofluorescence and western blot. Expect a band at ~69.5kDa in western blot using appropriate tissues and lysates. Positive control used: U2OS, MOLT4, Jurkat, and NIH-3T3 in WB. U2OS in Immunofluorescence.
Restrictions:	For Research Use only

Handling

Format:	Liquid

Handling

Buffer:	Buffer: 0.002 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.0 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Expiry Date:	12 months