

Datasheet for ABIN7601989
anti-XRCC1 antibody (AA 538-633)



[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	XRCC1
Binding Specificity:	AA 538-633
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This XRCC1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-XRCC1 Antibody Picoband® (monoclonal, 10E10)
Immunogen:	E. coli-derived human XRCC1 recombinant protein (Position: E538-A633).
Clone:	10E10
Isotype:	IgG2b
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-XRCC1 Antibody Picoband® (monoclonal, 10E10) (ABIN7601989). Tested in Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: XRCC1

Alternative Name: XRCC1 ([XRCC1 Products](#))

Background: Synonyms: Glutathione S-transferase Mu 1, GST HB subunit 4, GST class-mu 1, GSTM1-1, GSTM1a-1a, GSTM1b-1b, GTH4, GSTM1, GST1
Tissue Specificity: Liver (at protein level).
Background: XRCC1(X-RAY REPAIR, COMPLEMENTING DEFECTIVE, IN CHINESE HAMSTER, 1) is a DNA repair protein which complexes with DNA ligase III. 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. The XRCC1 gene is mapped to 19q13.31. The XRCC1 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. XRCC1 is phosphorylated in vivo and in vitro by CK2, and CK2 phosphorylation of XRCC1 on ser518, thr519, and thr523 largely determines aprataxin binding to XRCC1 through its FHA domain.

Molecular Weight: 95 kDa

Gene ID: 7515

UniProt: [P18887](#)

Pathways: [DNA Damage Repair](#)

Application Details

Application Notes: Western blot, 0.25-0.5 µg/mL, Human
Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human
Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human
1. Bhattacharyya, N., Banerjee, S. A novel role of XRCC1 in the functions of a DNA polymerase beta variant. Biochemistry 40: 9005-9013, 2001. 2. Brookman, K. W., Tebbs, R. S., Allen, S. A., Tucker, J. D., Swiger, R. R., Lamerdin, J. E., Carrano, A. V., Thompson, L. H. Isolation and characterization of mouse Xrcc1, a DNA repair gene affecting ligation. Genomics 22: 180-188, 1994.

Application Details

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.