

Datasheet for ABIN7545206
XRCC1 Protein (AA 1-633) (His tag)



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Overview

Quantity:	1 mg
Target:	XRCC1
Protein Characteristics:	AA 1-633
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This XRCC1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat XRCC1 Protein expressed in mammalian cells.
Sequence:	<p>MPEIRLRHVV SCSSQDSTHC AENLLKADTY RKWRAAKAGE KTISVVLQLE KEEQIHSVDI</p> <p>GNDGSAFVEV LVGSSAGGAG EQDYEVLLVT SSFMSPSESR SGSNPNRVRM FGPDKLVRAA</p> <p>AEKRWDRVKI VCSQPYSKDS PFGLSFVRFH SPPDKDEAEA PSQKVTVTKL GQFRVKEEDE</p> <p>SANSLRPGAL FFSRINKTSP VTASDPAGPS YAAATLQASS AASSASPSVR AIGSTSKPQE</p> <p>SPKGKRKLDL NQEEKKTPSK PPAQLSPSVP KRPKLPAPTR TPATAPVPAR AQGAVTGKPR</p> <p>GEGTEPRRPR AGPEELGKIL QGVVVVLSGF QNPFRSELRD KALELGAKYR PDWTRDSTHL</p> <p>ICAFANTPKY SQVLGLGGRI VRKEWVLDCH RMRRRLPSQR YLMAGPGSSS EEDEASHSGG</p> <p>SGDEAPKLPQ KQPQTKTKPT QAAGPSSPQK PPTPEETKAA SPVLQEDIDI EGVQSEGQDN</p> <p>GAEDSGDTEG ELRRVAEQKE HRLPPGQEEN GEDPYAGSTD ENTDSSEHQE PPDLPVPELP</p> <p>DFFQGKHFFL YGEFPGDERR KLIRYVTA FN GELEDYMSDR VQFVITAQEW DPSFEEALMD</p> <p>NPSLAFVRPR WIYSCNEKQK LLPHQLYGVV PQA Sequence without tag. The proposed</p>

Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

XRCC1

Alternative Name:

XRCC1 ([XRCC1 Products](#))

Background:

DNA repair protein XRCC1 (X-ray repair cross-complementing protein 1),FUNCTION: Scaffold protein involved in DNA single-strand break repair by mediating the assembly of DNA break repair protein complexes (PubMed:11163244, PubMed:28002403). Negatively regulates ADP-ribosyltransferase activity of PARP1 during base-excision repair in order to prevent excessive PARP1 activity (PubMed:34102106, PubMed:34811483, PubMed:28002403). Recognizes and binds poly-ADP-ribose chains: specifically binds auto-poly-ADP-ribosylated PARP1, limiting its activity (PubMed:14500814, PubMed:34102106, PubMed:34811483).
{ECO:0000269|PubMed:11163244, ECO:0000269|PubMed:14500814, ECO:0000269|PubMed:28002403, ECO:0000269|PubMed:34102106, ECO:0000269|PubMed:34811483}.

Target Details

Molecular Weight:	69.5 kDa
UniProt:	P18887
Pathways:	DNA Damage Repair

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months