

# Datasheet for ABIN3075639 XRCC1 Protein (AA 1-633) (Strep Tag)



Overview

Quantity:	250 µg
Target:	XRCC1
Protein Characteristics:	AA 1-633
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This XRCC1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

## Product Details

Brand:	AliCE®
Sequence:	MPEIRLRHVV SCSSQDSTHC AENLLKADTY RKWRAAKAGE KTISVVLQLE KEEQIHSVDI
	GNDGSAFVEV LVGSSAGGAG EQDYEVLLVT SSFMSPSESR SGSNPNRVRM FGPDKLVRAA
	AEKRWDRVKI VCSQPYSKDS PFGLSFVRFH SPPDKDEAEA PSQKVTVTKL GQFRVKEEDE
	SANSLRPGAL FFSRINKTSP VTASDPAGPS YAAATLQASS AASSASPVSR AIGSTSKPQE
	SPKGKRKLDL NQEEKKTPSK PPAQLSPSVP KRPKLPAPTR TPATAPVPAR AQGAVTGKPR
	GEGTEPRRPR AGPEELGKIL QGVVVVLSGF QNPFRSELRD KALELGAKYR PDWTRDSTHL
	ICAFANTPKY SQVLGLGGRI VRKEWVLDCH RMRRRLPSQR YLMAGPGSSS EEDEASHSGG
	SGDEAPKLPQ KQPQTKTKPT QAAGPSSPQK PPTPEETKAA SPVLQEDIDI EGVQSEGQDN
	GAEDSGDTED ELRRVAEQKE HRLPPGQEEN GEDPYAGSTD ENTDSEEHQE PPDLPVPELP
	DFFQGKHFFL YGEFPGDERR KLIRYVTAFN GELEDYMSDR VQFVITAQEW DPSFEEALMD
	NPSLAFVRPR WIYSCNEKQK LLPHQLYGVV PQA

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3075639 | 02/25/2025 | Copyright antibodies-online. All rights reserved. Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany from design to production by highly experienced protein experts.
- · Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

#### Expression System:

- ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
  protein production are removed, leaving only the protein production machinery and the
  mitochondria to drive the reaction. During our lysate completion steps, the additional
  components needed for protein production (amino acids, cofactors, etc.) are added to
  produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

#### Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

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## Product Details

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}.
Molecular Weight:	69.5 kDa
JniProt:	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.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from
	Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce
	even the most difficult-to-express proteins, including those that require post-translational
	modifications.
	During lysate production, the cell wall and other cellular components that are not required for
	protein production are removed, leaving only the protein production machinery and the
	mitochondria to drive the reaction. During our lysate completion steps, the additional
	components needed for protein production (amino acids, cofactors, etc.) are added to produc
	something that functions like a cell, but without the constraints of a living system - all that's

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# Application Details

### Restrictions:

For Research Use only

# Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months