



Datasheet for ABIN3093471

## ERBB2IP Protein (AA 1-1412) (Strep Tag)



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	ERBB2IP
Protein Characteristics:	AA 1-1412
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This ERBB2IP protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

#### Product Details

Sequence: MTTKRSLFVR LVPCRCLRGE EETVTTLDYS HCSLEQVPKE IFTFEKTL EE LYLDANQIEE  
LPKQLFNCQS LHKLSLPDND LTTLPASIAN LINLRELDVS KNGIQEFPEN IKNCKVLTIV  
EASVNPISKL PDGFSQLLNL TQLYLNDAFL EFLPANFGRL TKLQILELRE NQLKMLPKTM  
NRLTQLERLD LGSNEFTEVP EVLEQLSGLK EFWMDANRLT FIPGFIGSLK QLTYLDVSKN  
NIEMVEEGIS TCENLQDLLL SSNSLQQLPE TIGSLKNITT LKIDENQLMY LPDSIGGLIS  
VEELDCSFNE VEALPSSIGQ LTNLRFTAAD HNYLQQLPPE IGSWKNITVL FLHSNKLETL  
PEEMGDMQKL KVINLSDNRL KNLPSFSTKL QQLTAMWLSL NQSKPLIPLQ KETDSETQKM  
VLTYNMFPPQ PRTEDEVFIS DNESFNPSLW EEQRKQRAQV AFECDEKDE REAPPREGNL  
KRYPTYPYDE LKNMVKTQVT IVHRLKDEET NEDSGRDLKP HEDQQDINKD VGVKTSESTT  
TVKSKVDERE KYMIGNSVQK ISEPEAEISP GSLPVTANMK ASENKHIHVN HDDVFEESSE  
LSSDEEMKMA EMRPPLIETS INQPKVVALS NNNKDDTKET DSLSDEVTHN SNQNNNSNCSS  
PSRMSDSVSL NTDSSQDTSL CSPVKQTHID INSKIRQEDE NFNSLLQNGD ILNSSTEEKF

KAHDKKDFNL PEYDLNVEER LVLIIEKSVDS TATADDTHKL DHINMNLNKL ITNDFQPEI  
MERSKTQDIV LGTSFLSINS KEETEHLENG NKYPNLESVN KVNGHSEETS QSPNRTEPHD  
SDCSVDLGIS KSTEDLSPQK SGPVGSVVKHSITNMEIGG LKIYDILSDN GPQQPSTTVK  
ITSAVDGKNI VRSKSTALLY DQPLQVFTGS SSSSDLISGT KAIFKFDSNH NPEEPNIIRG  
PTSGPQSAPQ IYGGPPQYNIQ YSSSAVKDT LWHSKQNPQI DHASFPPQLL PRSESTENQS  
YAKHSANMNF SNHNNVRANT AYHLHQRLGP ARHGEMWAIS PNDRLIPAVT RSTIQRQSSV  
SSTASVNLGD PGSTRRAQIP EGDYLSYREF HSAGRTPPMM PGSQRPLSAR TYSIDGPNAS  
RPQSARPSIN EIPERTMSVS DFNYSRTSPS KRPNARVGSE HSLLDPPGKS KVPRDWREQV  
LRHIEAKKLE KKHPQTSSSG DPCQDGIFIS GQQNYSSATL SHKDVPPDSL MKMPLSNGQM  
GQPLRPQANY SQIHPPQAS VARHPSREQL IDYLMLKVAH QPPYTQPHCS PRQGHELAQK  
EIRVRVEKDP ELGFSISGGV GGRGNPFRPD DDGIFVTRVQ PEGPASKLLQ PGDKIIQANG  
YSFINIEHGQ AVSLLKTFQN TVELIIVREV SS

**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.**

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Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 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

## Product Details

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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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

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Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none"><li>1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.</li><li>2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li></ol>
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

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## Target Details

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Target:	ERBB2IP
Alternative Name:	ERBIN ( <a href="#">ERBB2IP Products</a> )
Background:	Erbin (Densin-180-like protein) (ErbB2-interacting protein) (Protein LAP2),FUNCTION: Acts as an adapter for the receptor ERBB2, in epithelia. By binding the unphosphorylated 'Tyr-1248' of receptor ERBB2, it may contribute to stabilize this unphosphorylated state (PubMed:16203728). Inhibits NOD2-dependent NF-kappa-B signaling and pro-inflammatory cytokine secretion (PubMed:16203728). {ECO:0000269 PubMed:10878805, ECO:0000269 PubMed:16203728}.
Molecular Weight:	158.3 kDa
UniProt:	<a href="#">Q96RT1</a>
Pathways:	<a href="#">EGFR Signaling Pathway</a> , <a href="#">Asymmetric Protein Localization</a>

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## Application Details

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**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.

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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!

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**Restrictions:** For Research Use only

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## Handling

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**Format:** Liquid

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**Buffer:** The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

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**Handling Advice:** Avoid repeated freeze-thaw cycles.

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**Storage:** -80 °C

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**Storage Comment:** Store at -80°C.

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**Expiry Date:** Unlimited (if stored properly)

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**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process