

Recombinant Human YAP1 protein (His tag) ab241236

1 Image

Description

Product name	Recombinant Human YAP1 protein (His tag)		
Purity	> 90 % SDS-PAGE.		
Expression system	Yeast		
Accession	<u>P46937</u>		
Protein length	Full length protein		
Animal free	No		
Nature	Recombinant		
Species	Human		
Sequence	MDPGQQPPPPQPAPQGGGQPPSQPPQGGGPPSGPGQP APAATQAAPQAPPA GHQMVHVRGDSETDLEALFNAVMNPKTANVPQTVPMRLR KLPDSFFKPPE PKSHSRQASTDAGTAGALTPQHVRHSSPASLQLGAVSP GTLTPTGVVSG PAATPTAQHLRQSSFEIPDDVPLPAGWEMAKTSSGQRYF LNHIDQTTTWQ DPRKAMLSQMNVTAPTSPPVQQNMMNSASGPLPDGWE QAMTQDGEIYYIN HKNKTTSWLDPRLDPRFAMNQRISQSAPVKQPPPLAPQS PQGGVMGGSNS NQQQQMRLQQLQMEKERLRLKQQELLRQAMRNINPSTAN SPKCQELALRS QLPTLEQDGGTQNPVSSPGMSQELRTMTTNSSDPFLNSG TYHSRDESTDS GLSMSSYSVPRTPDNFLNSVDEMDTGDTINQSTLPSQQN RFPDYLEAIPG TNVDLGTLEGDGMNIEGEEELMPSLQEALSSDILNDMESVL AATKLDKESF LTWL		
Predicted molecular weight	57 kDa including tags		
Amino acids	1 to 504		
Tags	His tag N-Terminus		

## Specifications

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Our **Abpromise guarantee** covers the use of **ab241236** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE
<b>Form</b>	Liquid

## Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 7.20 Constituents: Tris buffer, 50% Glycerol (glycerin, glycerine)
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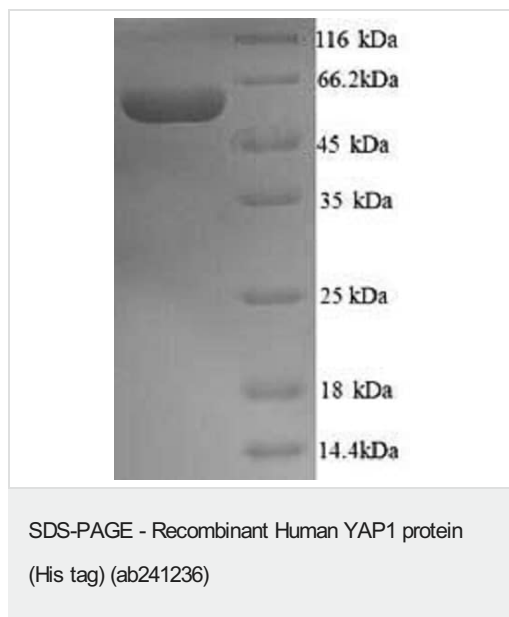
## General Info

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<b>Function</b>	Transcriptional regulator which can act both as a coactivator and a corepressor and is the critical downstream regulatory target in the Hippo signaling pathway that plays a pivotal role in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. The core of this pathway is composed of a kinase cascade wherein MST1/MST2, in complex with its regulatory protein SAV1, phosphorylates and activates LATS1/2 in complex with its regulatory protein MOB1, which in turn phosphorylates and inactivates YAP1 oncoprotein and WWTR1/TAZ. Plays a key role to control cell proliferation in response to cell contact. Phosphorylation of YAP1 by LATS1/2 inhibits its translocation into the nucleus to regulate cellular genes important for cell proliferation, cell death, and cell migration. The presence of TEAD transcription factors are required for it to stimulate gene expression, cell growth, anchorage-independent growth, and epithelial mesenchymal transition (EMT) induction. Isoform 2 and isoform 3 can activate the C-terminal fragment (CTF) of ERBB4 (isoform 3).
<b>Tissue specificity</b>	Increased expression seen in some liver and prostate cancers. Isoforms lacking the transactivation domain found in striatal neurons of patients with Huntington disease (at protein level).
<b>Sequence similarities</b>	Belongs to the YORKIE family. Contains 2 WW domains.
<b>Post-translational modifications</b>	Phosphorylated by LATS1 and LATS2; leading to cytoplasmic translocation and inactivation. Phosphorylated by ABL1; leading to YAP1 stabilization, enhanced interaction with TP73 and recruitment onto proapoptotic genes; in response to DNA damage.
<b>Cellular localization</b>	Cytoplasm. Nucleus. Both phosphorylation and cell density can regulate its subcellular localization. Phosphorylation sequesters it in the cytoplasm by inhibiting its translocation into the nucleus. At low density, predominantly nuclear and is translocated to the cytoplasm at high density.

## Images

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel analysis of ab241236.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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