

Recombinant Human YAP1 protein ab132459

[1 References](#) [1 Image](#)

Description

Product name	Recombinant Human YAP1 protein
Expression system	Wheat germ
Accession	<u>P46937</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	

MDPGQQPPPPQPAPQGQGQPPSQPPQGQGPPSGPGQP
APAATQAAPQAPPA
GHQIVHVRGDSETDLEALFNAVMPNKTANVPQTVPMRLR
KLPDSFFKPPE
PKSHSRQASTDAGTAGALTPQHVRHSSPASLQLGAVSP
GTLTPTGVVSG
PAATPTAQHLRQSSFEIPDDVPLPAGWEMAKTSSGQRYF
LNHIDQTTTWQ
DPRKAMLSQMNVTAPTSPPVQQNMMNSASGPLPDGWE
QAMTQDGEIYYIN
HKNKTTSWLDPRLDPRFAMNQRISQSAPVKQPPPLAPQS
PQGGVMGGSNS
NQQQQMRLQQLQMEKERLRLKQQELLRQAMRNINPSTAN
SPKCQELALRS
QLPTLEQDGGTQNPVSSPGMSQELRTMTTNSSDPFLNSG
TYHSRDESTDS
GLSMSSYSVPRTPDDFLNSVDEMDTGDITNQSTLPSQQN
RFPDYLEAIPG
TNVDLGTLEGDMNIEGEELMPSLQEALSSDILNDMESVL
AATKLDKESF LTWL

Predicted molecular weight	81 kDa including tags
Amino acids	1 to 504
Tags	GST tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab132459** in the following tested applications.

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

Applications	ELISA
	SDS-PAGE
	Western blot

Form	Liquid
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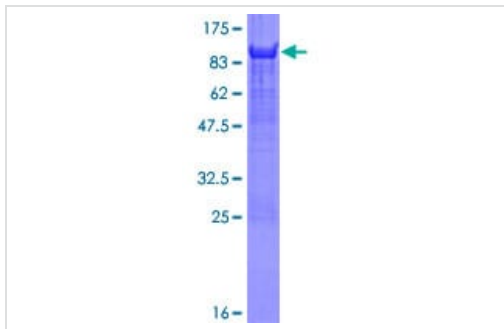
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.79% Tris HCl, 0.31% Glutathione
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General Info

Function	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).
Tissue specificity	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).
Sequence similarities	Belongs to the YORKIE family. Contains 2 WW domains.
Post-translational modifications	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.
Cellular localization	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



SDS-PAGE - Recombinant Human YAP1 protein
(ab132459)

SDS-PAGE analysis of ab132459 on a 12.5% gel stained with Coomassie Blue.

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