

RPAP2 Polyclonal Antibody

Catalog # AP72355

Product Information

Application	WB, E
Primary Accession	Q8IXW5
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	69509

Additional Information

Gene ID	79871
Other Names	RPAP2; C1orf82; Putative RNA polymerase II subunit B1 CTD phosphatase RPAP2; RNA polymerase II-associated protein 2
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications. E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

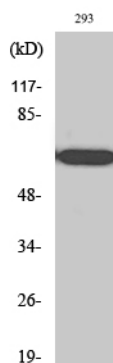
Protein Information

Name	RPAP2
Synonyms	C1orf82
Function	Protein phosphatase that displays CTD phosphatase activity and regulates transcription of snRNA genes. Recognizes and binds phosphorylated 'Ser-7' of the C-terminal heptapeptide repeat domain (CTD) of the largest RNA polymerase II subunit POLR2A, and mediates dephosphorylation of 'Ser-5' of the CTD, thereby promoting transcription of snRNA genes (PubMed: 17643375 , PubMed: 22137580 , PubMed: 24997600). Downstream of EIF2AK3/PERK, dephosphorylates ERN1, a sensor for the endoplasmic reticulum unfolded protein response (UPR), to abort failed ER-stress adaptation and trigger apoptosis (PubMed: 30118681).
Cellular Location	Cytoplasm. Nucleus. Note=Shuttles between the cytoplasm and the nucleus in a CRM1-dependent manner

Background

Protein phosphatase that displays CTD phosphatase activity and regulates transcription of snRNA genes. Recognizes and binds phosphorylated 'Ser-7' of the C-terminal heptapeptide repeat domain (CTD) of the largest RNA polymerase II subunit POLR2A, and mediates dephosphorylation of 'Ser-5' of the CTD, thereby promoting transcription of snRNA genes.

Images



Western Blot analysis of various cells using RPAP2 Polyclonal Antibody

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.