

Anti-RPAP2 Antibody

Catalog # AP60993

Product Information

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

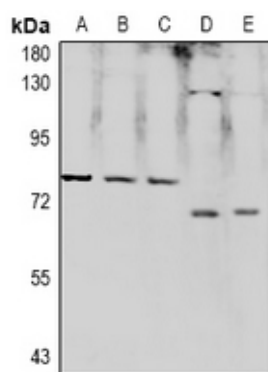
Additional Information

Gene ID	79871
Other Names	C1orf82; Putative RNA polymerase II subunit B1 CTD phosphatase RPAP2; RNA polymerase II-associated protein 2
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human RPAP2. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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

Images



Western blot analysis of RPAP2 expression in HEK293T (A), LO2 (B), A549 (C), AML12 (D), BV2 (E) whole cell lysates. (Predicted band size: 69 kD; Observed band size: 70 kD)

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