

Rpb1 rabbit pAb

Cat No.:ES3393

For research use only

Overview

Product Name Rpb1 rabbit pAb

Host species Rabbit

Applications WB;IHC;IF;ELISA

Species Cross-Reactivity Human; Mouse; Rat; Monkey **Recommended dilutions** Western Blot: 1/500 - 1/2000.

Immunohistochemistry: 1/100 - 1/300.

Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.

Immunogen The antiserum was produced against synthesized

peptide derived from human POLR2A. AA

range:1585-1634

Specificity Rpb1 Polyclonal Antibody detects endogenous levels

of Rpb1 protein.

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and

0.02% sodium azide.

Storage Store at -20°C. Avoid repeated freeze-thaw cycles.

Protein Name DNA-directed RNA polymerase II subunit RPB1

Gene Name POLR2A

Cellular localization Nucleus . Cytoplasm . Chromosome .

Hypophosphorylated form is mainly found in the cytoplasm, while the hyperphosphorylated and active form is nuclear (PubMed:26566685).

Co-localizes with kinase SRPK2 and helicase DDX23 at chromatin loci where unscheduled R-loops form

(PubMed:28076779). .

Purification The antibody was affinity-purified from rabbit

antiserum by affinity-chromatography using

epitope-specific immunogen.

Clonality Polyclonal
Concentration 1 mg/ml
Observed band 250kD
Human Gene ID 5430
Human Swiss-Prot Number P24928





Alternative Names

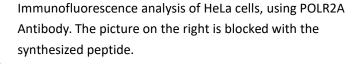
Background

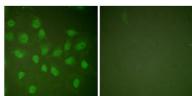
POLR2A; POLR2; DNA-directed RNA polymerase II subunit RPB1; RNA polymerase II subunit B1; DNA-directed RNA polymerase II subunit A; DNA-directed RNA polymerase III largest subunit; RNA-directed RNA polymerase II subunit RPB1 This gene encodes the largest subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. The product of this gene contains a carboxy terminal domain composed of heptapeptide repeats that are essential for polymerase activity. These repeats contain serine and threonine residues that are phosphorylated in actively transcribing RNA polymerase. In addition, this subunit, in combination with several other polymerase subunits, forms the DNA binding domain of the polymerase, a groove in which the DNA template is transcribed into RNA. [provided by RefSeq, Jul 2008],

(kD) HT29

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Western Blot analysis of various cells using Rpb1 Polyclonal Antibody diluted at 1:1000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).

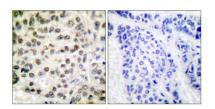




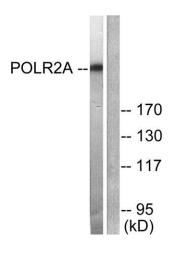
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Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using POLR2A Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from COS7 cells, treated with EGF 200ng/ml 30', using POLR2A Antibody. The lane on the right is blocked with the synthesized peptide.

