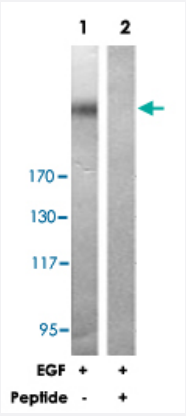
POLR2A polyclonal antibody

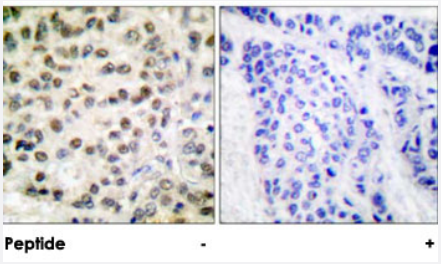
Catalog # PAB18131 Size 100 ug

Applications



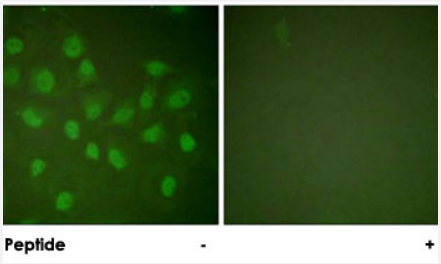
Western Blot (Cell lysate)

Western blot analysis of extracts from COS-7 cells treated with EGF (200 ng/mL, 30 min), using POLR2A polyclonal antibody (Cat # PAB18131). Peptide "+" means "peptide blocking".



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using POLR2A polyclonal antibody (Cat # PAB18131).
Peptide "+" means "peptide blocking".



Immunofluorescence

Immunofluorescence analysis of HeLa cells, treated with PMA (125 ng/mL, 30 mins), using POLR2A polyclonal antibody (Cat # PAB18131).
Peptide "+" means "peptide blocking".

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of POLR2A.

Immunogen	A synthetic peptide corresponding to human POLR2A.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody is specific to POLR2A.
Form	Liquid
Purification	Affinity purification
Concentration	1 mg/mL
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) Immunofluorescence (1:500-1:1000) ELISA (1:10000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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  Peptide "+" means "peptide blocking".

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using POLR2A polyclonal antibody (Cat # PAB18131).
  Peptide "+" means "peptide blocking".

- Immunofluorescence

  Immunofluorescence analysis of HeLa cells, treated with PMA (125 ng/mL, 30 mins), using POLR2A polyclonal antibody (Cat # PAB18131).
  Peptide "+" means "peptide blocking".

- Enzyme-linked Immunoabsorbent Assay

Gene Info — POLR2A

Entrez GeneID	5430
Protein Accession#	P24928
Gene Name	POLR2A
Gene Alias	MGC75453, POLR2, POLRA, RPB1, RPBh1, RPO2, RPOL2, RpIILS, hRPB220, hsRPB1
Gene Description	polymerase (RNA) II (DNA directed) polypeptide A, 220kDa
Omim ID	180660
Gene Ontology	Hyperlink
Gene Summary	This gene encodes the largest subunit of RNA polymerase II, the polymerase responsible for synth esizing messenger RNA in eukaryotes. The product of this gene contains a carboxy terminal dom ain composed of heptapeptide repeats that are essential for polymerase activity. These repeats c ontain serine and threonine residues that are phosphorylated in actively transcribing RNA polymer ase. In addition, this subunit, in combination with several other polymerase subunits, forms the DN A binding domain of the polymerase, a groove in which the DNA template is transcribed into RNA . [provided by RefSeq
Other Designations	DNA directed RNA polymerase II polypeptide A|DNA-directed RNA polymerase II largest subunit, RNA polymerase II 220 kd subunit|polymerase (RNA) II (DNA directed) polypeptide A (220kD)

Publication Reference

- Evaluation of locked nucleic acid-modified small interfering RNA in vitro and in vivo.

  Mook OR, Baas F, de Wissel MB, Fluiter K.

  Molecular Cancer Therapeutics 2007 Mar; 6(3):833.

- Functional genomic analysis of herpes simplex virus type 1 counteraction of the host innate response.

  Pasieka TJ, Baas T, Carter VS, Proll SC, Katze MG, Leib DA.

  Journal of Virology 2006 Aug; 80(15):7600.

- Functional and genomic changes in the mouse ocular motor system in response to light deprivation from birth.

  McMullen CA, Andrade FH, Stahl JS.

  Journal of Neuroscience 2004 Jan; 24(1):161.

Pathway

- Metabolic pathways
- Purine metabolism
- Pyrimidine metabolism
- RNA polymerase

Disease

- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Urinary Bladder Neoplasms