
Product Name: KO-Validated Phospho-POLR2A (S5) Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01887**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000
Molecular Weight	Calculated MW: 217.2kDa

Antigen Information

Gene Name	POLR2A
Alternative Names	RNA Polymerase II Subunit A; RNA Polymerase II Subunit B1; POLRA; POLR2; RPB1; DNA-Directed RNA Polymerase II Largest Subunit, RNA Polymerase II 220 Kd Subunit; Polymerase (RNA) II (DNA Directed) Polypeptide A, 220kDa; DNA-Directed RNA Polymerase III Largest Subunit; DNA-Directed RNA Polymerase II Subunit RPB1; RNA-Directed RNA Polymerase II Subunit RPB1; DNA-Directed RNA Polymerase II Subunit A; EC 2.7.7.6; Polymerase (RNA) II Subunit A; EC 2.7.7.48; HRPB220; NEDHIB; RplILS; HsRPB1; RPBh1; RPOL2; RPO2
Gene ID	5430.0
SwissProt ID	P24928
Immunogen	A synthesized peptide derived from human Phospho-POLR2A (S5)

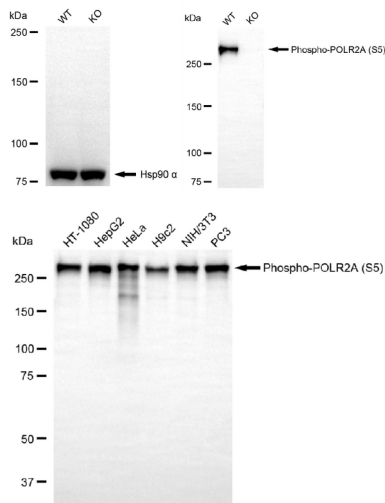
Background

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]

Research Area

Epigenetics and Nuclear Signaling

Image Data



Western blotting analysis using phospho-POLR2A (S5) antibody (KVA01887). Phospho-POLR2A (S5) expression in wild type (WT) and POLR2A knockout (KO) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with phospho-POLR2A (S5) antibody (KVA01887, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.

Western blotting analysis using Phospho-POLR2A (S5) antibody (KVA01887). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Phospho-POLR2A (S5) antibody (KVA01887, 1:5,000) and HRP-conjugated goat anti rabbit secondary antibody (APS0635, 1:10,000) respectively.