For research purposes only, not for human use

Product Data Sheet

Anti-Rpb1 CTD (Phospho-S1619) Antibody

Catalog #	Source	Reactivity	Applications
CPA3292	Rabbit	H, M, R, D, Z	WB, IH, IF/IC

Description	Rabbit polyclonal antibody to Rpb1 CTD (Phospho-S1619)
Immunogen	KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding S1619 of human Rpb1 CTD protein. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of Rpb1 CTD protein only when phosphorylated at S1619.
Clonality	Polyclonal
Conjugation	
Form	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Dilution	WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500)
Gene Symbol	POLR2A
Alternative Names	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
Entrez Gene	5430 (Human)
SwissProt	P24928 (Human); P08775 (Mouse)
Storage/Stability	Shipped at 4°C. Upon delivery aliquot and store at -20°C for one year. Avoid freeze/thaw cycles.

Application key: E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, ChIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference
Species reactivity key: H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish

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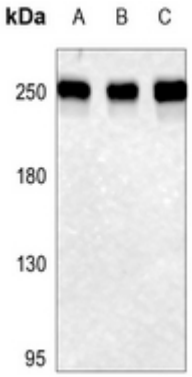
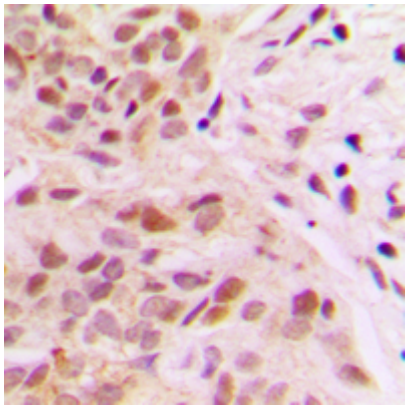
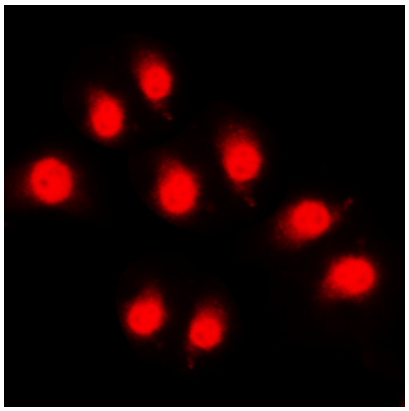


Western blot analysis of Rpb1 CTD (Phospho-S1619) expression in A549 (A), U2OS (B), H1688 (C) whole cell lysates. (Predicted band size: 217 kD; Observed band size: 250 kD)



Immunohistochemical analysis of Rpb1 CTD (Phospho-S1619) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Rpb1 CTD (Phospho-S1619) staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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