

# Anti-RNA polymerase 2, CTD PAN antibody

Clone	Cross reactivity	Application notes	Host	Isotype	Storage
1F4B6	Mammals	WB, ICC	Rat	IgG2a, $\kappa$	-20°C

**BACKGROUND** : RNA polymerase II (RNAPII) transcribes all protein-coding genes and many non-coding genes, and the activity of RNAPII correlates with the phosphorylation state of RPB1, the large catalytic subunit of RNAPII. RPB1 has an unusual C-terminal domain (CTD) that consists of repeats of the heptapeptide consensus sequence N-Tyr1-Ser2-Pro3-Thr4-Ser5-Pro6-Ser7-C, of which there are 52 copies in mammals. The amino acids in these repeats are potential targets for modification, such as phosphorylation and glycosylation.

**Immunogen** Synthetic peptide corresponding to Peptide of RNA Pol II CTD repeat, SPTSPSYSPSTSPSYSPSTSPS

**Host** Rat

**Isotype** IgG2a,  $\kappa$

**Cross reactivity** Mammals

**Specificity** RNA polymerase 2, CTD PAN

**Application notes** Recommended use

ELISA, WB, ICC, Not tested for other applications.

Recommended dilutions

Western blotting, 1/1000 to 1/5000

Immunocytochemistry, 1/100 to 1/500

Optional dilutions/concentrations should be determined by the end user.

**Source** Culture Supernatant

**Purification** Ion-exchange chromatography

**Form** Liquid

**Presentation** Purified monoclonal antibody in PBS, 50% Glycerol, 0.05% w/v ProClin300

**Concentration** 1 mg/mL

**Volume** 100  $\mu$ L

**Storage** Store below -20°C

(below -70°C for prolonged storage)

Aliquot to avoid cycles of freeze/thaw.

References

## Data

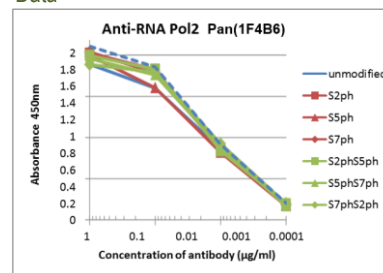


Fig.1 ELISA analysis

- RNA polymerase 2, CTD PAN antibody (1F4B6)

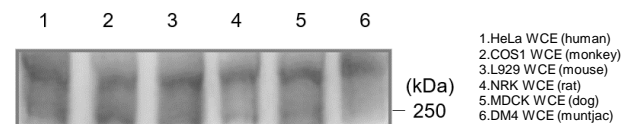
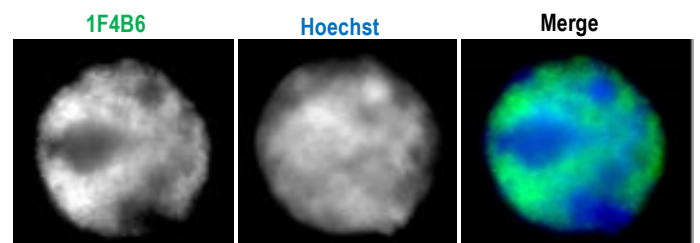


Fig.2 Western blot

- RNA polymerase 2, CTD PAN antibody (1F4B6)  
the mammalian cell total extracts



HeLa cells

Fig.3 Immunocytochemistry/Immunofluorescence  
- RNA polymerase 2, CTD PAN antibody (1F4B6)  
HeLa cells