

Rat RNA pol II CTD phospho Thr4 Monoclonal Antibody | anti-Thr4 antibody

RNA pol II CTD phospho Thr4 antibody (mAb)(Clone 6D7)

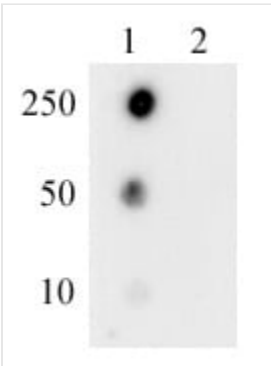
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA60012	Rat	Human, Wide Range Predicted	Western Blot, Immunoprecipitation, Immunofluorescence, Immunocytochemistry, ELISA, Dot Blot, Chromatin Immunoprecipitation, Immunoprecipitation

PRODUCT SYNONYMS

RNA pol II CTD phospho Thr4; Monoclonal Antibody; RNA pol II CTD phospho Thr4 antibody (mAb)(Clone 6D7); RPB1; RPO2; POLR2; POLRA; RPBh1; RPOL2; RplILS; hsRPB1; hRPB220; anti-Thr4 antibody

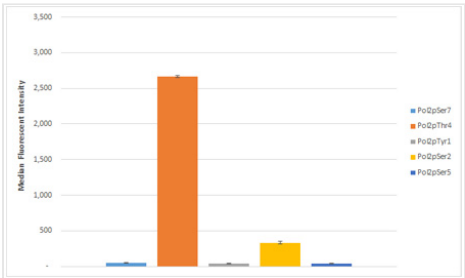
PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Human, Wide Range Predicted
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	6D7
Purity/Purification	Protein G Chromatography
Form/Format	Purified IgG in PBS with 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic.
Concentration	1ug/ul (varies by lot)
Applicable Applications for anti-Thr4 antibody	WB (Western Blot), IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA, DB (Dot Blot), ChIP (Chromatin immunoprecipitation)
Conjugation	Phosphorylated
Immunogen	This antibody was raised against a synthetic peptide corresponding to RNA Pol II CTD phosphorylated at threonine 4.
Abs Residue	Thr
Preparation and Storage	Some products may be shipped at room temperature. This will not affect their stability or performance. Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20 degree C for up to 2 years. Keep all reagents on ice when not in storage.1ug/ul



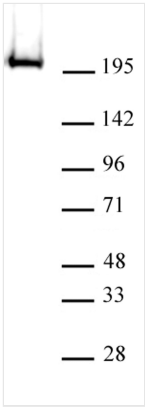
DB (Dot Blot)

Dot blot analysis was used to confirm the specificity of RNA Pol II phospho Thr4 antibody 10, 50 and 250 pmoles of RNA Pol II CTD were spotted onto nitrocellulose and probed with the antibody at 1 ug/ml. Lane 1: RNA Pol II CTD phospho-Thr4. Lane 2: RNA Pol II CTD Thr4 (unmodified)



Application Data

RNA pol II CTD phospho Thr4 antibody tested by bead-based assay Luminex bead-based specificity analysis was used to confirm the specificity of RNA pol II CTD phospho Thr4 antibody for RNA pol II CTD peptides conjugated to MagPlex Luminex beads and incubated with 50ng of RNA pol II CTD phospho Thr4 antibody. Peptide-bound antibody was detected with anti-mouse IgG-Phycoerythrin and read in a Luminex instrument. (Luminex is a registered trademark of Luminex Corporation).



WB (Western Blot)

Western blot of RNA pol II CTD phospho Thr4 mAb. 30 ug of HeLa cell nuclear extract was probed with RNA pol II CTD phospho Thr4 antibody at 2 ug/ml in buffer containing 0.05% Tween.

ADDITIONAL INFORMATION

Related Product Information for anti-Thr4 antibody	Short Description: Our RNA pol II CTD phospho Thr4 antibody (mAb)(Clone 6D7) was raised in a Rat host. It has been validated for use in Chromatin Immunoprecipitation, Dot blot, ELISA, Immunocytochemistry, Immunofluorescence, Immunoprecipitation and Western blot; it has been shown to react with Human samples, but it is predicted that it will react with a wide range of sample types.
	Background: RNA pol II (RNA polymerase II) is a complex of 12 proteins that participates in transcription, mRNA processing, and transcription-coupled DNA repair. RNA polymerase II is distinguished by its large carboxyl-terminal repeat domain (CTD), composed of repeats of the consensus heptapeptide Tyr1-Ser2-Pro3-Thr4-Ser5-Pro6-Ser7. Polo-like kinase 3 (plk3) has been reported to phosphorylate Thr4 which may be required for transcriptional elongation.
Product Categories/Family for anti-Thr4 antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505939
NCBI GeneID	5430
NCBI Accession #	NP_000928; AB_2750848
NCBI GenBank Nucleotide #	NM_000937

UniProt Accession #	P24928; Q6NX41; A6NN93; B9EH88
Molecular Weight	63,641 Da
NCBI Official Full Name	DNA-directed RNA polymerase II subunit RPB1
NCBI Official Synonym Full Names	polymerase (RNA) II (DNA directed) polypeptide A, 220kDa
NCBI Official Symbol	POLR2A
NCBI Official Synonym Symbols	RPB1; RPO2; POLR2; POLRA; RPBh1; RPOL2; RplILS; hsRPB1; hRPB220
NCBI Protein Information	DNA-directed RNA polymerase II subunit RPB1; DNA-directed RNA polymerase II largest subunit, RNA polymerase II 220 kd subunit; DNA-directed RNA polymerase II subunit A; DNA-directed RNA polymerase III largest subunit; RNA polymerase II subunit B1; RNA-dir
UniProt Protein Name	DNA-directed RNA polymerase II subunit RPB1
UniProt Gene Name	POLR2A
UniProt Synonym Gene Names	POLR2; RNA polymerase II subunit B1
UniProt Entry Name	RPB1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/rna-pol-ii-ctd-phospho-thr4-antibody-clone-6d7-western-blot-immunoprecipitation-immunofluorescence-immunocytochemistry-dot-blot-chromatin-immunoprecipitation-elisa/60012>