

Anti-RNA Polymerase II CTD repeat YSPTSPS (phospho Ser5) Antibody [CTD 8A7] (A251056)

Specifications:

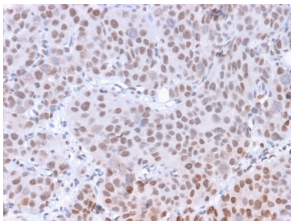
Name:	Anti-RNA Polymerase II CTD repeat YSPTSPS (phospho Ser5) Antibody [CTD 8A7]
Description:	Mouse monoclonal [CTD 8A7] antibody to RNA Polymerase II CTD repeat YSPTSPS (phospho Ser5).
Specificity:	RNA polymerase II (Pol II) is an enzyme that is composed of 12 subunits and is responsible for the transcription of protein-coding genes. Transcription initiation requires Pol II-mediated recruitment of transcription machinery to a target promoter, thereby allowing transcription to begin. The largest subunit of Pol II (referred to as RPB1 or RPB205) is a 1,840 amino acid protein that contains one C2H2-type zinc finger and a C-terminal domain comprised of several heptapeptide repeats. Although Pol II function requires the cooperation of all twelve subunits, the largest subunit conveys Pol II catalytic activity and, together with the second largest subunit, forms the active center of the Pol II enzyme. Additionally, the large subunit participates in forming the DNA-binding domain of Pol II, a groove that is necessary for transcription of the DNA template. Without proper function of the large subunit, mRNA synthesis and subsequent transcription elongation cannot occur.
Applications:	Flow Cytometry, IF, WB, IHC-P
Recommended Dilutions:	Flow Cytometry: 1-2 µg/million cells, IF: 1-2 µg/ml, WB: 1-2 µg/ml, IHC-P: 1-2 µg/ml
Reactivity:	Human, <i>Saccharomyces cerevisiae</i>
Immunogen:	Ten repeats of synthetic peptide YSPTSPS using chemically synthesized phospho Ser5.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	CTD 8A7
Isotype:	IgM
Light Chains:	kappa
Conjugate:	Unconjugated
Concentration:	200 µg/ml
Product Form:	Liquid
Formulation:	Supplied in 10mM Phosphate Buffered Saline with 0.05% BSA and 0.05% Sodium Azide.

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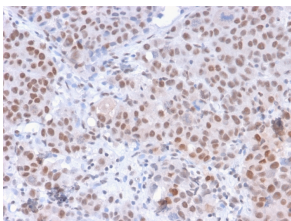
Specifications continued:

Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
General Notes:	This monoclonal antibody is also available in a different formulation without BSA and Sodium Azide - Anti-RNA Polymerase II CTD repeat YSPTSPS (phospho Ser5) Antibody [CTD 8A7] - BSA and Azide free (A254333).
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

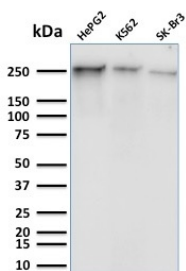
Images:



Immunohistochemical analysis of formalin-fixed, paraffin-embedded human colon carcinoma using Anti-RNA Polymerase II CTD repeat YSPTSPS (phospho Ser5) Antibody [CTD 8A7].



Immunohistochemical analysis of formalin-fixed, paraffin-embedded human colon carcinoma using Anti-RNA Polymerase II CTD repeat YSPTSPS (phospho Ser5) Antibody [CTD 8A7].



Western blot analysis of human HepG2, K562, and SK-BR-3 cell lysates using Anti-RNA Polymerase II CTD repeat YSPTSPS (phospho Ser5) Antibody [CTD 8A7].