Date of Submission: 9-14-12

Name: Cheryl Keller  
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Lab: Hardison

Antibody Name: RNA polymerase II CTD repeat  
Target: POL2

Company/Source: Abcam

Catalog Number, database ID, laboratory: ab5408  
Lot Number: 722997, 962594

Antibody Description:
Mouse monoclonal [4H8] to RNA polymerase II CTD repeat YSPTSPS synthetic peptide (human); sequence repeated multiple times in C-terminal domain of RNA pol II largest subunit; recognizes both unphosphorylated and phosphorylated forms

Target Description:
Polymerase (RNA) II (DNA directed) polypeptide A, 220kDa; ~217kDa  
Entrez Gene: 5430

Species Target: Mouse  
Species Host: Mouse

Validation Method #1: Western Blot  
Validation Method #2:

Purification Method:

Polyclonal/Monoclonal: Monoclonal  

Reference (PI/Publication Information)

Please complete the following for antibodies to histone modifications:
if your specifications are not listed in the drop-down box, please write-in the appropriate information

Histone Name    AA modified    AA Position    Modification
Pol2-4H8 antibody: Abcam POL24H8, Cat# ab5408

Validation of Pol2-4H8 antibody.

Western blot analysis of POL2 expression in various mouse cell lines.
Whole cell extracts prepared from G1E, G1E-ER4+E2, MEL, and CH12 cells were separated by SDS-PAGE and transferred to PVDF using standard immunoblotting methods. POL2 expression was detected using mouse anti-POL24H8 (ab5408, 1:1000) followed by incubation with anti-mouse secondary antibody (1:5000) and detected by ECL Plus (Amersham Biosciences). As expected, a single band of approximately 260 kDa was detected (predicted molecular weight: 217 kDa) in all cell lines tested.