

ENCODE DCC ANTIBODY VALIDATION DOCUMENT

Date of Submission: 6/22/11

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Lab: Struhl

Antibody Name: Rpc155

Target: Rpc155

Company/Source: Donated by Dr. RJ White, The Beatson Institute for Cancer Research

Catalog number or laboratory database ID: antibody number 1900

Lot Number: N/A

Antibody Description: Rabbit polyclonal - Antiserum 1900 was raised by immunizing rabbits with synthetic peptide PKRPLTFDTNEFHPLVT (residues 1374-1391 of the RPC155 subunit of human pol III) coupled to KLH

Target Description: RNA Polymerase III polypeptide A, 155kDa

Target Species: Human

Host Species: Rabbit

Validation Method 1: Western blot

Validation Method 2: Correlation with other factors in the same complex at known biological targets.

Purification Method:

Polyclonal/Monoclonal: Polyclonal

Reference:

Fairley, J.A., Scott, P.H. & White, R.J. TFIIIB is phosphorylated, disrupted and selectively released from tRNA promoters during mitosis *in vivo*. EMBO J. 22, 5841–5850 (2003).

Validation 1: Western blot in ENCODE cell line GM12878 shows a clean single band:



Validation 2: Rpc155 ChIP-seq binding sites correlate extremely well with the expected targets (tRNA genes) and with occupancy by other Pol III transcription factors, including Bdp1:

