

**Antibody: H3K4me3**

**Vendor: Abcam**

**Part number: ab8580**

**Lot number: 376637**

**Broad Alias: PchAb 91-V**

**Test date:** October 2007

**User:** Supplied by vendor

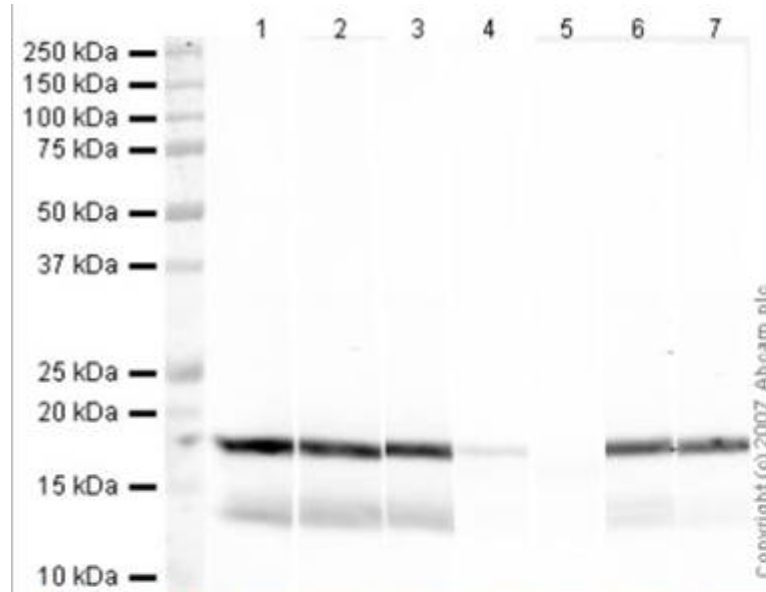
**Procedure:**

Calf Thymus Histone Preparation Nuclear Lysate was fractionated using an SDS/PAGE gel and transferred for immunoblotting. The immunoblot was cut into strips and exposed to the test antibody in the presence of the indicated synthetic peptides. Lane 1 simply illustrates the migration of the protein recognized by the antibody, and demonstrates that said protein has an apparent molecular weight consistent with the antibody recognizing a form of Histone H3. This serves as a **primary validation** of the antibody.

In addition, lanes 2 – 7 were prepared by hybridizing the immunoblot in the presence of a competing synthetic peptide. Only the peptide used in Lane 4 and 5 (and 4 to a lesser extent) demonstrated inhibition of binding, consistent with the intended specificity of this antibody for H3K4me3 and H3K4me2.

**Primary ab concentration:** 1 ug / ml

**Secondary antibody:** Rabbit IgG ab28446 at 1:10,000



**All lanes :** Anti-Histone H3 (tri methyl K4) antibody - ChIP Grade (ab8580) at 1 µg/ml

**Lane 1 :** Calf Thymus Histone Preparation Nuclear Lysate (ab121)

**Lane 2 :** Calf Thymus Histone Preparation Nuclear Lysate (ab121) with [Human Histone H3 \(unmodified \) peptide \(ab7228\)](#) at 0.5 µg/ml

**Lane 3 :** Calf Thymus Histone Preparation Nuclear Lysate (ab121) with [Human Histone H3 \(mono methyl K4\) peptide \(ab1340\)](#) at 0.5 µg/ml

**Lane 4 :** Calf Thymus Histone Preparation Nuclear Lysate (ab121) with [Human Histone H3 \(di methyl K4\) peptide \(ab7768\)](#) at 0.5 µg/ml

**Lane 5 :** Calf Thymus Histone Preparation Nuclear Lysate (ab121) with [Human Histone H3 \(tri methyl K4\) peptide \(ab1342\)](#) at 0.5 µg/ml

**Lane 6 :** Calf Thymus Histone Preparation Nuclear Lysate (ab121) with [Human Histone H3 \(tri methyl K9\) peptide \(ab1773\)](#) at 0.5 µg/ml

**Lane 7 :** Calf Thymus Histone Preparation Nuclear Lysate (ab121) with [Human Histone H3 \(tri methyl K27\) peptide \(ab1782\)](#) at 0.5 µg/ml

Lysates/proteins at 0.5 µg per lane.

**Secondary**

Rabbit IgG secondary antibody (ab28446) at 1/10000 dilution

Performed under reducing conditions.

**Predicted band size :** 15 kDa