# Dot blot validation of antibodies used in the ENCODE project:

### Broad Institute ChIP-Seq Group

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## Protocol

- Dot Blot Fabrication:
  - Suitably modified peptides modeled on histone tails were obtained from Abcam.
  - Each peptide is added to Bio-Dot apparatus at 0.01 and 0.1 ug / 50uL total volume (BioRad)
  - Let sit on rocker 60 minutes.
  - Pull through with vacuum, wash once with 100uL TBS and twice with 200uL TBSTw.
  - Remove membrane from Bio-Dot and transfer to 10mL Pierce SuperBlock in tray.
  - Place on rocker for 30 minutes.
  - Dump off SuperBlock.
- Antibody hybridization and imaging:
  - Add Primary Antibody in 10mL total volume.
  - Place on rocker for 30 minutes.
  - Wash 3 x 5 minutes in TBSTw.
  - Add secondary antibody diluted in SuperBlock in 10mL total volume.
  - Place on rocker for 30 minutes.
  - Wash 3 x 15 minutes in TBSTw, 1 x 10 minutes in TBS.
  - Image using ECL and a FluorChem Peltier-cooled camera (Cell Biosciences)

**Antibody:** Rabbit polyclonal to Histone H3 (tri methyl K9) – ChIP Grade **Vendor:** Abcam

**Immunogen:** Synthetic peptide conjugated to KLH derived from within residues 1 - 100 of Human Histone H3, tri methylated at K9.

Product Number: ab8898

Lot Number: 484088

• H3K9me3



Test Date 4/14/2010 User MC

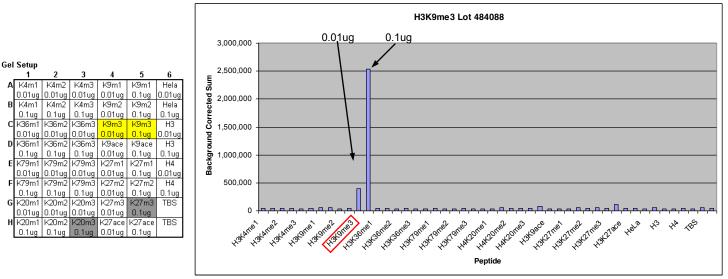
#### Primary Antibody H3K9me3

Vendor Abcam Part # ab8898 Lot # 484088 Concentration 1 :2500 Incubation Time 60m

#### Secondary Antibody

Vendor	USB #72560
Part #	72560
Lot #	123941
Concentration	1 :10,000
Incubation Time	30m





Performed at Broad Institute

### Protocol

- Add each peptide into BioDot at above concentrations in 50uL total volume
- Let sit on rocker 60 minutes
- Pull through with vacuum, wash once with 100uL TBS and twice with 200uL TBSTw
- Remove membrane from BioDot and transfer to 10mL Pierce SuperBlock in tray
- Place on rocker for 30 minutes
  Dump off SuperBlock and add Primary Antibody in 10mL total volume
- Dump off SuperBlock and add Primary Antibody in TUML total volt
  Place on rocker for 30 minutes
- Place on rocker for 30 minutes
  Wash 3 x 5 minutes in TBSTw
- Add secondary antibody diluted in SuperBlock in 10mL total volume
- Place on rocker for 30 minutes
- Wash 3 x 15 minutes in TBSTw, 1 x 10 minutes in TBS
- Develop in Fluorchem