

Broad Institute - Encode3 Secondary Antibody Validation

Millipore #09-868, lot NRG1867761

Target: PHF8

Approved name: PHD finger protein 8

Function: Preferentially demethylates histones that are monomethylated or demethylated at lysine residues. The encoded protein requires Fe(2+) ion, 2-oxoglutarate, and oxygen for its catalytic activity.

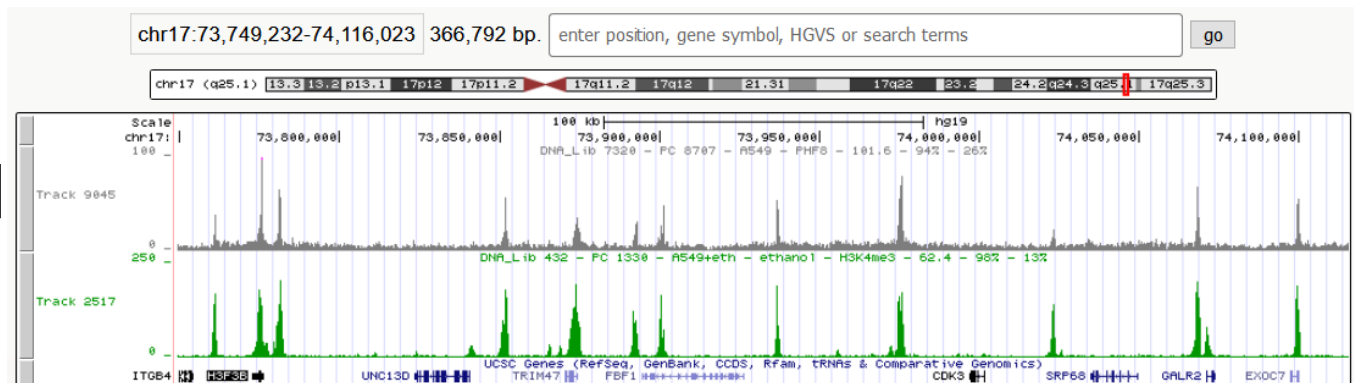
Reference: Cell Res. 2010 8:861-2. Features of the PHF8/KIAA1718 histone demethylase. Suganuma, T, Workman, JL. [PMID: 20644565](https://pubmed.ncbi.nlm.nih.gov/20644565/)

Antibody being validated:

1. Millipore #09-868 Lot NRG1867761 (rabbit polyclonal)
2. Broad Alias: PchAb 1243
3. Immunogen: KLH-conjugated linear peptide corresponding to human PHD finger protein 8.
4. <https://www.encodeproject.org/antibodies/ENCAB757LUG/>

This validation relies on the use of antibodies to a chromatin regulator and a functionally related histone modification in A549 cells, and the demonstration that highly similar patterns of enrichment are obtained with each antibody. The first track shown used an antibody to PHF8 (PchAb 1243, ENCAB757LUG), and the second track shown used an antibody to H3K4me3 previously characterized to Encode standards (PchAb 100-V, ENCAB000BLF).

Overall correlation score: 0.538



Antibody being compared:

1. Millipore #07-473 Lot DAM1644057 (rabbit polyclonal)
2. Broad Alias: PchAb 100-V
3. Immunogen: Synthetic peptide corresponding to residues surrounding and including trimethylated Lys 4 of Histone H3
4. <https://www.encodeproject.org/antibodies/ENCAB000BLF/>