Heterochromatin Protein 1? (HP1?) has distinct functions and distinct nuclear distribution in pluripotent versus differentiated cells.

By elsc_admin
Created 9/15/2016
By elsc_admin September 15, 2016


Abstract:

Pluripotent embryonic stem cells (ESCs) have the unique ability to differentiate into every cell type and to self-renew. These characteristics correlate with a distinct nuclear architecture, epigenetic signatures enriched for active chromatin marks and hyperdynamic binding of structural chromatin proteins. Recently, several chromatin-related proteins have been shown to regulate ESC pluripotency and/or differentiation, yet the role of the major heterochromatin proteins in pluripotency is unknown.

Journal:
Genome biology

Volume:
16

Pagination:
213

Date Published:
2015

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