

P017 BCL11A: a nuclear receptor corepressor modified by SUMOylation

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The BCL11A gene is required for lymphocyte development and is implicated in B-cell malignancies. Recent studies have shown that BCL11A functions as a corepressor for BCL6 and the nuclear receptor COUPTF. Here we show that BCL11A interacts with a range of nuclear receptors including retinoic acid receptors, ER and PPARs, resulting in repression of ligand-dependent transcription. We present data on mapping sequences required for repression of nuclear receptor transcription, and demonstrate that the BCL11A protein is modified by SUMOylation, a feature in common with several other transcriptional repressors.