

1 **Supplementary table 1 Cell types used to study target genes of menin-protein**  
 2 **complexes<sup>1</sup>.**

Reference	Protein complex	Cell type (origin)	Menin level	Technology
(Hughes et al. 2004)	Menin-MLL2	MEFs, wt or menin null (mouse embryonic fibroblast)	Endogenous, re-expression	ChIP with anti-menin Ab at <i>Hoxc8</i> locus
(Milne et al. 2005)	Menin-MLL1/2	MEFs, wt or menin null (mouse embryonic fibroblast)	Endogenous, re-expression	ChIP with anti-menin Ab and anti-MLL Ab at <i>Cdkn1b</i> and <i>Cdkn2c</i> loci
(Yokoyama&Cleary 2008)	Menin-MLL1/2	U937 (human lymphoma)	Endogenous	ChIP with anti-menin Ab, anti-MLL Ab and anti-PSIP1 Ab at <i>HOXA</i> , <i>MEIS1</i> , <i>CDKN1B</i> and <i>CDKN2C</i> loci
(Huang et al. 2012)	Menin-MLL1-PSIP1	MEFs, menin null (mouse embryonic fibroblast)	Re-expression	ChIP with anti-menin Ab and anti-MLL Ab at <i>Hoxc8</i> locus
(Mensah-Osman et al. 2011)	Menin-JUND	AGS (human gastric carcinoma)	Overexpression, knockdown	ChIP with anti-menin Ab and anti-JUND Ab at gastrin gene locus

(Scacheri et al. 2006)	Menin	HeLa (human cervical cancer)	Endogenous	ChIP-chip with anti-menin Ab
		HepG2 (human hepatocellular carcinoma)	Endogenous	ChIP-chip with anti-menin Ab
		Human pancreatic islets	Endogenous	ChIP-chip with anti-menin Ab
		Mouse pancreatic islets, wt or menin null	Endogenous	ChIP-chip with anti-menin Ab
(Sierra et al. 2006)	Menin- $\beta$ catenin	C2C12 (mouse myoblast)	Endogenous	ChIP with anti-menin Ab at <i>c-Myc</i> locus
(Dreijerink et al. 2006)	Menin-ER $\alpha$	MCF7 (human breast cancer)	Overexpression, knockdown	ChIP with anti-menin Ab and anti-ER $\alpha$ Ab at <i>TFF1</i> locus
(Dreijerink et al. 2009)	Menin-PPAR $\gamma$	MEFs, wt or menin null (mouse embryonic fibroblast)	Endogenous, re-expression	ChIP with anti-menin Ab and anti-PPAR $\gamma$ Ab at <i>Fabp4</i> and <i>Aqp7</i> loci
(Gurung et al. 2013b)	Menin-PRMT5	MEFs, menin null (mouse)	Endogenous, re-expression	ChIP with anti-menin Ab and anti-PRMT5

		embryonic fibroblast)		Ab at gastrin gene locus
(Gurung et al. 2013a)	Menin-PRMT5	MEFs, menin null or floxed (mouse embryonic fibroblast)	Endogenous, re-expression	ChIP with anti-menin Ab and anti-PRMT5 Ab at <i>Gli1</i> locus
		PIME1, floxed (mouse pancreatic islet)	Endogenous	ChIP with anti-menin Ab and anti-PRMT5 Ab at <i>Gli1</i> locus
(Yang et al. 2013)	Menin-SUV39H1	MEFs, wt or menin null (mouse embryonic fibroblast)	Endogenous, knockout, re-expression	ChIP with anti-menin Ab and anti-SUV39H1 Ab at <i>Gbx2</i> locus

3 <sup>†</sup> This table summarizes studies referred to in this review Ab, antibody; ChIP, chromatin immunoprecipitation; wt, wildtyp

4