



Rabbit Anti-Mel18 antibody

SL18782R

Product Name:	Mel18
Chinese Name:	DNABinding proteinMel18抗体
Alias:	DNA binding protein Mel 18; DNA-binding protein Mel-18; Mel 18; MEL-18; MGC10545; PCGF 2; PCGF2; PCGF2_HUMAN; Polycomb group ring finger 2; Polycomb group RING finger protein 2; Ring finger protein 110; RNF 110; RNF110; Zinc finger protein 144; ZNF 144; ZNF144.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,Chimpanzee,Macaque Monkey
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	38kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Mel18:281-344/344
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The protein encoded by this gene contains a RING finger motif and is similar to the polycomb group (PcG) gene products. PcG gene products form complexes via protein-protein interaction and maintain the transcription repression of genes involved in embryogenesis, cell cycles, and tumorigenesis. This protein was shown to act as a

negative regulator of transcription and has tumor suppressor activity. The expression of this gene was detected in various tumor cells, but is limited in neural organs in normal tissues. Knockout studies in mice suggested that this protein may negatively regulate the expression of different cytokines, chemokines, and chemokine receptors, and thus plays an important role in lymphocyte differentiation and migration, as well as in immune responses. [provided by RefSeq, Jul 2008]

Subunit:

Transcriptional repressor. Binds specifically to the DNA sequence 5'-GACTNGACT-3'. Has tumor suppressor activity. May play a role in control of cell proliferation and/or neural cell development. Regulates proliferation of early T progenitor cells by maintaining expression of HES1. Also plays a role in antero-posterior specification of the axial skeleton and negative regulation of the self-renewal activity of hematopoietic stem cells. Component of the Polycomb group (PcG) multiprotein PRC1 complex, a complex required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development. PcG PRC1 complex acts via chromatin remodeling and modification of histones; it mediates monoubiquitination of histone H2A 'Lys-119', rendering chromatin heritably changed in its expressibility.

Subcellular Location:

Nucleus.

Tissue Specificity:

Detected in all tissues examined with high expression found in placenta lung and kidney and low expression, in liver, pancreas and skeletal muscle.

Post-translational modifications:

Phosphorylated. Homodimer formation is regulated by phosphorylation state with unphosphorylated protein forming homodimers.

Similarity:

Contains 1 RING-type zinc finger.

SWISS:

P35227

Gene ID:

7703

Database links:

[Entrez Gene: 7703](#) Human

[Entrez Gene: 22658](#) Mouse

[Entrez Gene: 287662](#) Rat

[Omid: 600346](#) Human

[SwissProt: P35227](#) Human

[SwissProt: P23798](#) Mouse

[Unigene: 371617](#) Human

[Unigene: 713595](#) Human

[Unigene: 2418](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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