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PCGF2 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP14911c

Specification

PCGF2 Antibody (Center) Blocking Peptide - Product Information

Primary Accession P35227

PCGF2 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 7703

Other Names
Polycomb group RING finger protein 2, DNA-binding protein Mel-18, RING finger protein 110, Zinc finger protein 144, PCGF2, MEL18, RNF110, ZNF144

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PCGF2 Antibody (Center) Blocking Peptide - Protein Information

Name PCGF2

Synonyms MEL18, RNF110, ZNF144

Function
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 (By similarity). Component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class 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 (PubMed:26151332). Within the PRC1-like complex, regulates RNF2 ubiquitin ligase activity (PubMed:26151332).

Cellular Location
Nucleus.

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

PCGF2 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

PCGF2 Antibody (Center) Blocking Peptide - Images

PCGF2 Antibody (Center) Blocking Peptide - Background

The protein encoded by this gene contains a RING fingermotif and is similar to the polycomb group (PcG) gene products. PcGgene products form complexes via protein-protein interaction andmaintain the transcription repression of genes involved inembryogenesis, cell cycles, and tumorigenesis. This protein wasshown to act as a negative regulator of transcription and has tumorsuppressor activity. The expression of this gene was detected invarious tumor cells, but is limited in neural organs in normaltissues. Knockout studies in mice suggested that this protein maynegatively regulate the expression of different cytokines,chemokines, and chemokine receptors, and thus plays an importantrole in lymphocyte differentiation and migration, as well as inimmune responses.

PCGF2 Antibody (Center) Blocking Peptide - References

Jung, J.H., et al. Biochem. Biophys. Res. Commun. 400(4):523-530(2010)Zhang, X.W., et al. Mol. Cancer 9, 40 (2010) :Wang, W., et al. Int. J. Cancer 125(12):2836-2843(2009)Zhang, J., et al. Biochem. Biophys. Res. Commun. 375(2):252-255(2008)Elderkin, S., et al. Mol. Cell 28(1):107-120(2007)