

PCGF2 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14911C

Specification

PCGF2 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	P35227
Other Accession	NP_009075.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	37788
Antigen Region	121-150

PCGF2 Antibody (Center) - 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

Target/Specificity

This PCGF2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 121-150 amino acids from the Central region of human PCGF2.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PCGF2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

PCGF2 Antibody (Center) - 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

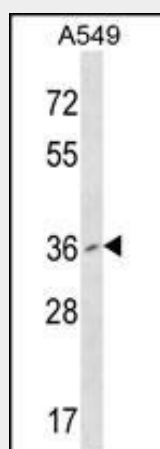
Detected in all tissues examined with high expression found in placenta lung and kidney and low expression, in liver, pancreas and skeletal muscle

PCGF2 Antibody (Center) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PCGF2 Antibody (Center) - Images



PCGF2 Antibody (Center) (Cat. #AP14911c) western blot analysis in A549 cell line lysates (35ug/lane). This demonstrates the PCGF2 antibody detected the PCGF2 protein (arrow).

PCGF2 Antibody (Center) - Background

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.

PCGF2 Antibody (Center) - 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)