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PCGF1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5417

Product Information

Application	WB
Primary Accession	Q9BSM1
Other Accession	Q8R023, Q2YDF9
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	30346
Isotype	Rabbit IgG
Antigen Source	HUMAN

Additional Information

Gene ID	84759
Antigen Region	117-151
Other Names	Polycomb group RING finger protein 1, Nervous system Polycomb-1, NSPc1, RING finger protein 68, PCGF1, NSPC1, RNF68
Dilution	WB~~1:1000
Target/Specificity	This PCGF1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 117-151 amino acids from the Central region of human PCGF1.
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	PCGF1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PCGF1
Synonyms	NSPC1, RNF68

Function	Component of the Polycomb group (PcG) multiprotein BCOR complex, a complex required to maintain the transcriptionally repressive state of some genes, such as BCL6 and the cyclin-dependent kinase inhibitor, CDKN1A. Transcriptional repressor that may be targeted to the DNA by BCL6; this transcription repressor activity may be related to PKC signaling pathway. Represses CDKN1A expression by binding to its promoter, and this repression is dependent on the retinoic acid response element (RARE element). Promotes cell cycle progression and enhances cell proliferation as well. May have a positive role in tumor cell growth by down-regulating CDKN1A. 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). Regulates the expression of DPPA4 and NANOG in the NT2 embryonic carcinoma cells (PubMed:26687479).
Cellular Location	Nucleus
Tissue Location	Ubiquitous..

Background

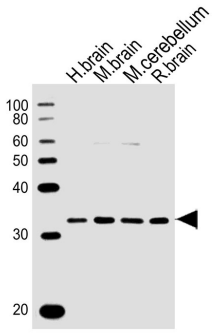
Component of the Polycomb group (PcG) multiprotein BCOR complex, a complex required to maintain the transcriptionally repressive state of some genes, such as BCL6 and the cyclin- dependent kinase inhibitor, CDKN1A. Transcriptional repressor that may be targeted to the DNA by BCL6; this transcription repressor activity may be related to PKC signaling pathway. Represses CDKN1A expression by binding to its promoter, and this repression is dependent on the retinoic acid response element (RARE element). Promotes cell cycle progression and enhances cell proliferation as well. May have a positive role in tumor cell growth by down-regulating CDKN1A. 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.

References

Ding J.B.,et al.Submitted (JUL-2003) to the EMBL/GenBank/DDBJ databases.
Hillier L.W.,et al.Nature 434:724-731(2005).
Nunes M.,et al.Mech. Dev. 102:219-222(2001).
Gong Y.,et al.FEBS Lett. 579:115-121(2005).
Gearhart M.D.,et al.Mol. Cell. Biol. 26:6880-6889(2006).

Images

All lanes : Anti-PCGF1 Antibody (Center) at 1:1000 dilution Lane 1: human brain lysates Lane 2: mouse brain lysates Lane 3: mouse cerebellum lysates Lane 4: rat brain lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/10000 dilution Predicted band size : 30 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.