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PCGF1 Rabbit pAb

Catalog # AP97211

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9BSM1
Other Accession	Q9BSM1
Reactivity	Mouse
Predicted	Rat, Pig, Human, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	30346
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PCGF1
Epitope Specificity	121-220/259
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 RING-type zinc finger.
SUBUNIT	Component of repressive BCOR complex containing Polycomb group subcomplex at least composed of RYBP, RING1 and RNF2/RING2. Specifically interacts with BCOR, RING1 and RNF2/RING2. Component of a PRC1-like complex. Interacts with CBX6, CBX7 and CBX8.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	PCGF1 is a 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. It represses CDKN1A expression by binding to its promoter, and this repression is dependent on the retinoic acid response element (RARE element). PCGF1 als promotes cell cycle progression and also enhances cell proliferation, thus it may have a positive role in tumor cell growth.

Additional Information

Gene ID	84759
Other Names	2010002K04Rik; NSPC1; RNF3A-2; RNF68; PCGF1_BOVIN; PCGF1; PCGF1_HUMAN; Nervous system Polycomb-1 (NSPc1); RING finger protein 68; PCGF1_MOUSE; PCGF1_RAT; polycomb group ring finger 1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

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..

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