PCGF1 Blocking Peptide

PRODUCT OVERVIEW

Product Name	PCGF1, Blocking Peptide
Full Product Name	PCGF1 Blocking Peptide
Product Gene Name	PCGF1 blocking peptide
Product Synonym Names	PCGF1; 2010002K04Rik; Lethal(3)73AH, Drosophila, homolog of; MGC10882; Nervous system Polycomb-1; NSPc1; polycomb group ring finger 1; Polycomb group RING finger protein 1; RING finger protein 68; RNF3A-2; RNF68
Antibody/Peptide Pairs	PCGF1 peptide (MBS9632420) is used for blocking the activity of PCGF1 antibody (MBS9630037)
Molecular Weight	20,904 Da
OMIM	AF087884 mRNA
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PCGF1 blocking peptide	MBS9632420 is a blocking peptide targeting PCGF1.
Other Notes	Small volumes of PCGF1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PCGF1. It may not necessarily be applicable to this product.

NCBI GI #	109240538
NCBI GeneID	84759
NCBI Accession #	NP_116062.2
UniProt Primary Accession #	Q9BSM1
UniProt Secondary Accession #	Q7Z506
UniProt Related Accession #	Q9BSM1
GenBank Nucleotide #	NM_032673.2
NCBI Official Full Name	polycomb group RING finger protein 1
NCBI Official Synonym Full Names	polycomb group ring finger 1
NCBI Official Symbol	PCGF1
NCBI Official Synonym Symbols	NSPC1; RNF68; RNF3A-2; 2010002K04Rik
UniProt Protein Name	Polycomb group RING finger protein 1
UniProt Synonym Protein Names	Nervous system Polycomb-1; NSPc1; RING finger protein 68
Protein Family	Polycomb group RING finger protein

UniProt Gene Name	PCGF1
UniProt Synonym Gene Names	NSPC1; RNF68; NSPc1
NCBI Protein Information	polycomb group RING finger protein 1
NCBI Summary for PCGF1	PCGF1 is a mammalian homolog of the Drosophila polycomb group genes, which act as transcriptional repressors to regulate anterior-posterior patterning in early embryonic development (Nunes et al., 2001 [PubMed 11287196]). See also PCGF2 (MIM 600346).[supplied by OMIM, Aug 2008]
UniProt Comments for PCGF1	PCGF1: 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. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 6.3.2.-; Ligase; Ubiquitin conjugating system; Ubiquitin ligase Chromosomal Location of Human Ortholog: 2p13.1 Cellular Component: nucleoplasm; nucleus; PcG protein complex Molecular Function: metal ion binding; protein binding; protein C-terminus binding Biological Process: regulation of transcription, DNA-templated; transcription, DNA-dependent
Research Articles on PCGF1	**1.** these results demonstrate that NSPc1 promotes cancer stem cell self-renewal by repressing the synthesis of all-trans retinoic acid via targeting RDH16 and may provide novel targets for glioma treatment in the future.
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