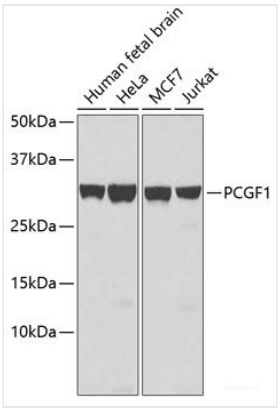
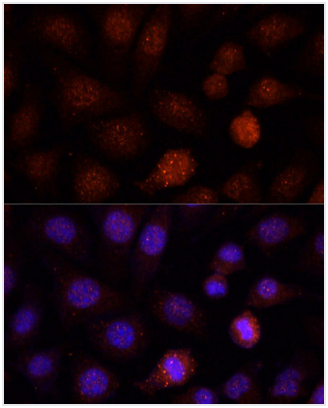
PCGF1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

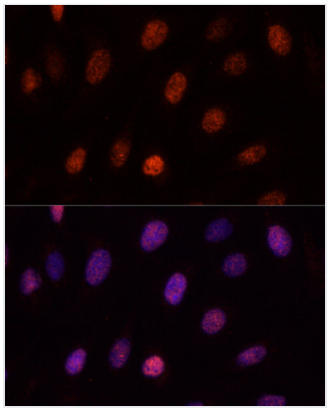
Product Name	PCGF1, Polyclonal Antibody
Full Product Name	PCGF1 Polyclonal Antibody
Product Gene Name	anti-PCGF1 antibody
Product Synonym Names	PCGF1; 2010002K04Rik; NSPC1; RNF3A-2; RNF68
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Purity/Purification	Affinity purification
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	20,904 Da
OMIM	AF087884 mRNA
3D Structure	ModBase 3D Structure for Q9BSM1
Immunogen	Recombinant fusion protein of human PCGF1 (NP_1160622)
Conjugation	Unconjugated
Product Categories/Family for anti-PCGF1 antibody	Polyclonal Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PCGF1 antibody	Western Blot (WB), Immunofluorescence (IF)
Application Notes for anti-PCGF1 antibody	WB: 1:500-1:2000 IF: 1:50-1:200
Related Product Information for anti-PCGF1 antibody	PCGF1 (Polycomb Group Ring Finger 1) is a Protein Coding gene. Diseases associated with PCGF1 include Bardet-Biedl Syndrome 2 and Kidney Clear Cell Sarcoma. Among its related pathways are Signaling pathways regulating pluripotency of stem cells. Gene Ontology (GO) annotations related to this gene include protein C-terminus binding. An important paralog of this gene is PCGF6.
Other Notes	Small volumes of anti-PCGF1 antibody 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.
Searchable Terms for PCGF1 purchase	MBS2566578 is an antibody targeting PCGF1. Also known as PCGF1 Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-PCGF1 antibody
Western blot analysis of extracts of various cell lines using PCGF1 Polyclonal Antibody.



Immunofluorescence (IF) of anti-PCGF1 antibody
Immunofluorescence analysis of L-929 cells using PCGF1 Polyclonal Antibody at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence (IF) of anti-PCGF1 antibody
Immunofluorescence analysis of U-2OS cells using PCGF1 Polyclonal Antibody at dilution of 1:100. Blue: DAPI for nuclear staining.

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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