

**RNF3 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP59167****Specification**

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**RNF3 Polyclonal Antibody - Product Information**

Application	<b>WB, IHC-P, IHC-F, IF, E</b>
Primary Accession	<a href="#">Q3KNV8</a>
Reactivity	<b>Rat, Pig, Dog, Bovine</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>28 KDa</b>
Physical State	<b>Liquid</b>
Immunogen	<b>KLH conjugated synthetic peptide derived from human PCGF3/RNF3</b>
Epitope Specificity	<b>141-242/242</b>
Isotype	<b>IgG</b>
<b>Purity</b> affinity purified by Protein A	
Buffer	<b>0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.</b>
SUBCELLULAR LOCATION	<b>Nucleus.</b>
SIMILARITY	<b>Contains 1 RING-type zinc finger.</b>
SUBUNIT	<b>Component of a PRC1-like complex.</b>
Important Note	<b>Interacts with CBX6, CBX7 and CBX8.</b> <b>This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.</b>

**Background Descriptions**

Polycomb group (PcG) proteins form multiprotein complexes that regulate expression patterns of developmental and cell proliferation genes. Several members of the PcG contain ring finger domains and are identified as a subclass of RING finger proteins. The RING-type zinc finger motif is present in a number of viral and eukaryotic proteins and is made of a conserved cysteine-rich domain that is able to bind two zinc atoms. Proteins that contain the RING-type zinc finger conserved domain are generally involved in the ubiquitination pathway of protein degradation. PCGF3 (polycomb group ring finger 3), also known as RNF3, DONG1 or RNF3A, is a 242 amino acid transcriptional regulator that is encoded by a gene located on human chromosome 4, which encodes nearly 6% of the human genome and has the largest gene deserts (regions of the genome with no protein encoding genes) of all of the human chromosomes. PCGF3 exists as two isoforms produced by alternative splicing events.

**RNF3 Polyclonal Antibody - Additional Information****Gene ID** 10336**Other Names**

Polycomb group RING finger protein 3, RING finger protein 3A, PCGF3, RNF3, RNF3A

**Dilution**

<span class = "dilution\_WB">WB~~1:1000</span><br \><span class = "dilution\_IHC-P">IHC-P~~N/A</span><br \><span class = "dilution\_IHC-F">IHC-F~~N/A</span><br \><span class = "dilution\_IF">IF~~1:50~200</span><br \><span class = "dilution\_E">E~~N/A</span>

**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.

**RNF3 Polyclonal Antibody - Protein Information**

**Name** PCGF3

**Synonyms** RNF3, RNF3A

**Function**

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. Within the PRC1-like complex, regulates RNF2 ubiquitin ligase activity (PubMed:<a href="http://www.uniprot.org/citations/26151332" target="\_blank">26151332</a>). Plays a redundant role with PCGF5 as part of a PRC1- like complex that mediates monoubiquitination of histone H2A 'Lys-119' on the X chromosome and is required for normal silencing of one copy of the X chromosome in XX females (By similarity).

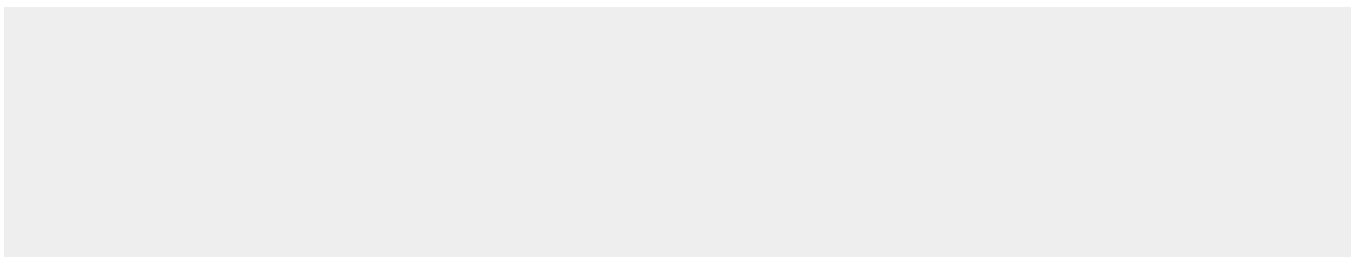
**Cellular Location**

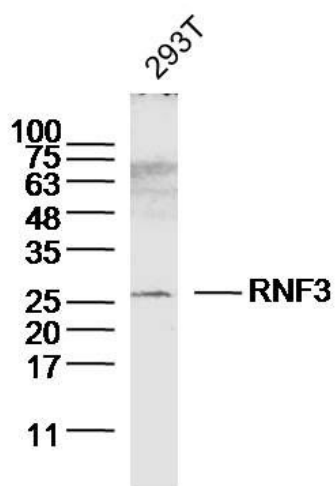
Nucleus. Nucleus, nucleoplasm {ECO:0000250|UniProtKB:Q8BTQ0}. Note=Recruited by the non-coding RNA Xist to specific nuclear foci that probably correspond to the inactivated X chromosome. {ECO:0000250|UniProtKB:Q8BTQ0}

**RNF3 Polyclonal Antibody - 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](#)

**RNF3 Polyclonal Antibody - Images**



Sample: 293T Cell (Human) Lysate at 30 ug  
Primary: Anti- RNF3 (bs-9169R) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 28kD  
Observed band size: 28kD