

**RNF169 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP59200****Specification****RNF169 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	<a href="#">Q8NCN4</a>
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	77 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RNF169
Epitope Specificity	401-500/708
Isotype	IgG
<b>Purity</b>	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus, nucleoplasm. Note=Localizes to sites of double-strand breaks (DSBs) following DNA damage. Recruited to DSBs via recognition of RNF168-dependent ubiquitin products.
SIMILARITY	Belongs to the RNF169 family. Contains 1 RING-type zinc finger.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Background Descriptions**

RNF169 contains 1 RING type zinc finger. The exact functions of RNF169 remain unknown.

**RNF169 Polyclonal Antibody - Additional Information**

**Gene ID** 254225

**Other Names**

E3 ubiquitin-protein ligase RNF169, 2.3.2.27, RING finger protein 169, RING-type E3 ubiquitin transferase RNF169, RNF169, KIAA1991

**Dilution**

WB~1:1000  
IHC-P~N/A  
IHC-F~N/A  
IF~1:50~200  
E~N/A

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**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.

**RNF169 Polyclonal Antibody - Protein Information**

**Name** RNF169

**Synonyms** KIAA1991

**Function**

Probable E3 ubiquitin-protein ligase that acts as a regulator of double-strand breaks (DSBs) repair following DNA damage. Functions in a non-canonical fashion to harness RNF168-mediated protein recruitment to DSB-containing chromatin, thereby contributing to regulation of DSB repair pathway utilization (PubMed:<a href="http://www.uniprot.org/citations/22492721" target="\_blank">22492721</a>, PubMed:<a href="http://www.uniprot.org/citations/30773093" target="\_blank">30773093</a>). Once recruited to DSB repair sites by recognizing and binding ubiquitin catalyzed by RNF168, competes with TP53BP1 and BRCA1 for association with RNF168-modified chromatin, thereby favouring homologous recombination repair (HRR) and single-strand annealing (SSA) instead of non-homologous end joining (NHEJ) mediated by TP53BP1 (PubMed:<a href="http://www.uniprot.org/citations/30104380" target="\_blank">30104380</a>, PubMed:<a href="http://www.uniprot.org/citations/30773093" target="\_blank">30773093</a>). E3 ubiquitin-protein ligase activity is not required for regulation of DSBs repair.

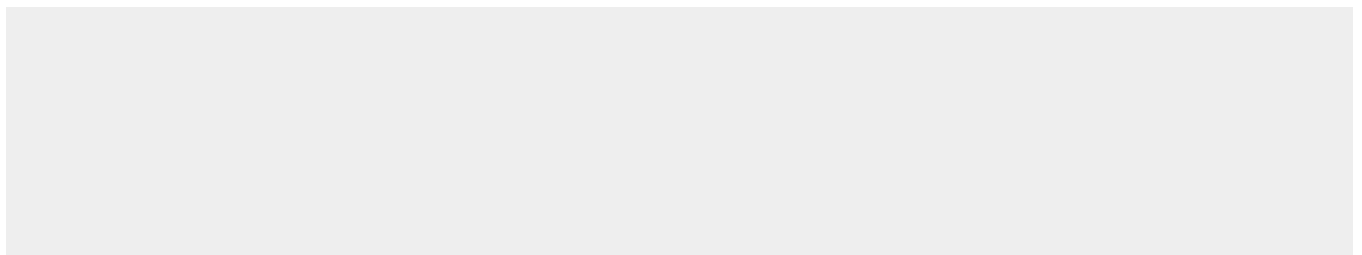
**Cellular Location**

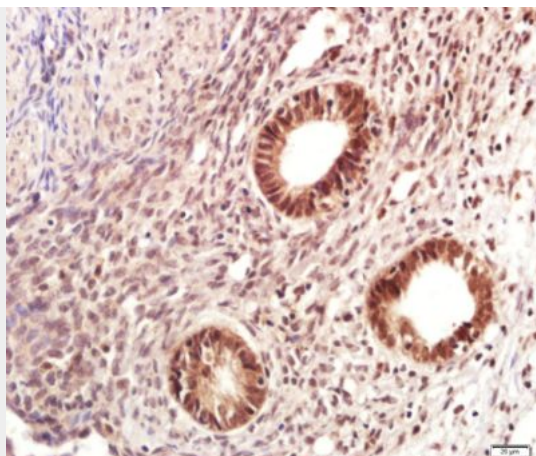
Chromosome. Nucleus, nucleoplasm. Note=Localizes to sites of double-strand breaks (DSBs) following DNA damage. Recruited to DSBs via recognition of RNF168-dependent ubiquitin products.

**RNF169 Polyclonal Antibody - Protocols**

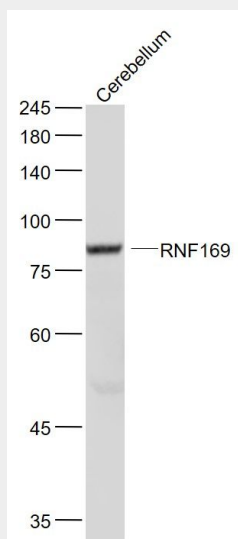
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**RNF169 Polyclonal Antibody - Images**



Paraformaldehyde-fixed, paraffin embedded (human cervical cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (RNF169) Polyclonal Antibody, Unconjugated (bs-9259R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



**Sample:**

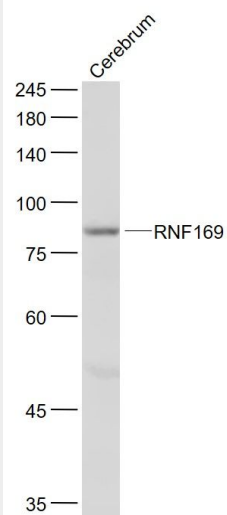
Cerebellum (Mouse) Lysate at 40 ug

Primary: Anti- RNF169 (bs-9259R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 77 kD

Observed band size: 77 kD



**Sample:**

Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti- RNF169 (bs-9259R) at 1/1000 dilution

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