

RNF138 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP59197

Specification

RNF138 Polyclonal Antibody - Product Information

Application WB, IHC-P, IHC-F, IF, E

Primary Accession <u>Q8WVD3</u>

Reactivity
Host
Clonality
Rat, Pig, Dog, Bovine
Rabbit
Rollyclonal

Clonality Polyclonal Calculated MW 28 KDa Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

from human RNF138

Epitope Specificity 51-150/245

Isotype 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 Interacts with NLK.
Post-translational modifications Auto-ubiquitinated.

Important Note

This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

Background Descriptions

E3 ubiquitin-protein ligase. Together with NLK, involved in the ubiquitination and degradation of TCF/LEF. Also exhibits auto-ubiquitination activity in combination with UBE2K. May act as a negative regulator in the Wnt/beta-catenin-mediated signaling pathway.

RNF138 Polyclonal Antibody - Additional Information

Gene ID 51444

Other Names

E3 ubiquitin-protein ligase RNF138, 2.3.2.27, Nemo-like kinase-associated RING finger protein, NLK-associated RING finger protein, hNARF, RING finger protein 138, RING-type E3 ubiquitin transferase RNF138, RNF138 (HGNC:17765)

Dilution

WB~~1:1000/>span class

="dilution_IHC-P">IHC-P~~N/A<br \><span class

="dilution_IHC-F">IHC-F~~N/A<br \><span class

="dilution IF">IF \sim 1:50 \sim 200<br\>E \sim N/A



Storage

Store at -20 $^{\circ}$ 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 $^{\circ}$ C.

RNF138 Polyclonal Antibody - Protein Information

Name RNF138 (HGNC:17765)

Function

E3 ubiquitin-protein ligase involved in DNA damage response by promoting DNA resection and homologous recombination (PubMed:26502055, PubMed:26502057). Recruited to sites of double-strand breaks following DNA damage and specifically promotes double-strand break repair via homologous recombination (PubMed:26502055, PubMed:26502057). Two different, non-exclusive, mechanisms have been proposed. According to a report, regulates the choice of double-strand break repair by favoring homologous recombination over non-homologous end joining (NHEI): acts by mediating ubiquitination of XRCC5/Ku80, leading to remove the Ku complex from DNA breaks, thereby promoting homologous recombination (PubMed:26502055). According to another report, cooperates with UBE2Ds E2 ubiquitin ligases (UBE2D1, UBE2D2, UBE2D3 or UBE2D4) to promote homologous recombination by mediating ubiquitination of RBBP8/CtIP (PubMed: 26502057). Together with NLK, involved in the ubiquitination and degradation of TCF/LEF (PubMed: 16714285). Also exhibits auto-ubiquitination activity in combination with UBE2K (PubMed: 16714285). May act as a negative regulator in the Wnt/beta-catenin-mediated signaling pathway (PubMed:16714285).

Cellular Location

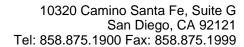
Chromosome. Note=Recruited at DNA damage sites (PubMed:26502055). Localizes to sites of double-strand break: localization to double-strand break sites is mediated by the zinc fingers (PubMed:26502055, PubMed:26502057)

RNF138 Polyclonal Antibody - Protocols

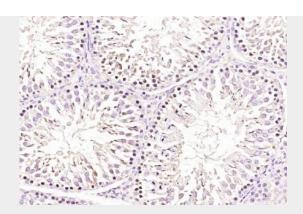
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

RNF138 Polyclonal Antibody - Images







Paraformaldehyde-fixed, paraffin embedded (rat testis tissue); 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 (RNF138) Polyclonal Antibody, Unconjugated (bs-9254R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.