

RNF138 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP17600C

Specification

RNF138 Antibody (Center) - Product Information

Application WB,E
Primary Accession O8WVD3

Other Accession Q32LN5, NP 057355.2

Reactivity
Predicted
Host
Clonality
Isotype
Calculated MW
Antigen Region

Human
Bovine
Rabbit
Polyclonal
Rabbit IgG
76-103

RNF138 Antibody (Center) - Additional Information

Gene ID 51444

Other Names

E3 ubiquitin-protein ligase RNF138, 632-, Nemo-like kinase-associated RING finger protein, NLK-associated RING finger protein, hNARF, RING finger protein 138, RNF138, NARF

Target/Specificity

This RNF138 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 76-103 amino acids from the Central region of human RNF138.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

RNF138 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

RNF138 Antibody (Center) - 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 (NHEJ): 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

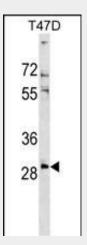
Chromosome. Note=Recruited at DNA damage sites (PubMed:26502055). Localizes to sites of double-strand break: localization to double-strand break sites is mediated by the zinc fingers (PubMed:26502055, PubMed:26502057)

RNF138 Antibody (Center) - Protocols

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

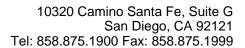
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

RNF138 Antibody (Center) - Images



RNF138 Antibody (Center) (Cat. #AP17600c) western blot analysis in T47D cell line lysates (35ug/lane). This demonstrates the RNF138 antibody detected the RNF138 protein (arrow).

RNF138 Antibody (Center) - Background





The protein encoded by this gene contains a RING finger, a motif present in a variety of functionally distinct proteins and known to be involved in protein-DNA and protein-protein interactions. Alternatively spliced transcript variants encoding distinct isoforms have been observed.

RNF138 Antibody (Center) - References

Rose, J. Phd, et al. Mol. Med. (2010) In press: Yamada, M., et al. J. Biol. Chem. 281(30):20749-20760(2006) Lim, J., et al. Cell 125(4):801-814(2006) Saurin, A.J., et al. Trends Biochem. Sci. 21(6):208-214(1996)