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Anti-RNF138 Antibody
Catalog # AP53865

Specification

Anti-RNF138 Antibody - Product Information

Application	**WB**
Primary Accession	Q8WVD3
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**28193**

Anti-RNF138 Antibody - Additional Information

Gene ID 51444

Other Names
NARF; E3 ubiquitin-protein ligase RNF138; Nemo-like kinase-associated RING finger protein; NLK-associated RING finger protein; hNARF; RING finger protein 138

Target/Specificity
KLH-conjugated synthetic peptide encompassing a sequence within the center region of human RNF138. The exact sequence is proprietary.

Dilution
WB~~1/500 - 1/1000

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-RNF138 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 (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).

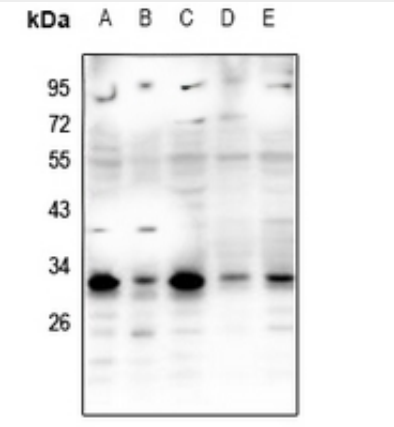
Cellular Location
Chromosome. Note=Recruited at DNA damage sites (PubMed:26502055). Localizes to sites of double-strand break: localization to double-strand break sites is mediated by the zinc fingers (PubMed:26502055, PubMed:26502057)

Anti-RNF138 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 Cytomety
- Cell Culture

Anti-RNF138 Antibody - Images



Western blot analysis of RNF138 expression in CT26 (A), PC12 (B), COS7 (C), MCF7 (D), A549 (E) whole cell lysates.

Anti-RNF138 Antibody - Background

Rabbit polyclonal antibody to RNF138