Anti-RNF138 antibody

Description	Rabbit polyclonal to RNF138.

Model	STJ95520
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, WB
Immunogen	Synthesized peptide derived from human RNF138
Immunogen Region	1-80 aa, Internal
Gene ID	51444
Gene Symbol	RNF138
Dilution range	WB 1:500-1:2000ELISA 1:20000
Specificity	RNF138 Polyclonal Antibody detects endogenous levels of RNF138 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	E3 ubiquitin-protein ligase RNF138 Nemo-like kinase-associated RING finger protein NLK-associated RING finger protein hNARF RING finger protein 138 RING-type E3 ubiquitin transferase RNF138
Molecular Weight	28 kDa
Clonality	Polyclonal
Conjugation	Unconjugated

Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:17765OMIM:616319
Alternative Names	E3 ubiquitin-protein ligase RNF138 Nemo-like kinase-associated RING finger protein NLK-associated RING finger protein hNARF RING finger protein 138 RING-type E3 ubiquitin transferase RNF138
Function	E3 ubiquitin-protein ligase involved in DNA damage response by promoting DNA resection and homologous recombination . Recruited to sites of double-strand breaks following DNA damage and specifically promotes double-strand break repair via homologous recombination . 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 . 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 . 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 .
Sequence and Domain Family	The zinc finger domains (C2H2-type and C2HC-type zinc fingers) bind DNA and mediate recruitment to double-strand break sites. They show strong preference for DNA with 5'- or 3'-single-stranded overhangs, while they do not bind blunt-ended double-stranded DNA or poly(ADP-ribose) (PAR) polymers.
Cellular Localization	Chromosome. Recruited at DNA damage sites . Localizes to sites of double-strand break: localization to double-strand break sites is mediated by the zinc fingers .
Post-translational Modifications	Auto-ubiquitinated.