

Datasheet for ABIN6991342
anti-RNF8 antibody (C-Term)



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Overview

Quantity:	0.1 mg
Target:	RNF8
Binding Specificity:	AA 330-380, C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RNF8 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF)

Product Details

Immunogen:	RNF8 antibody was raised against a 14 amino acid synthetic peptide near the carboxy terminus of human RNF8. The immunogen is located within amino acids 330 - 380 of RNF8.
Isotype:	IgG
Specificity:	At least three isoforms of RNF8 are known to exist, this antibody will detect all three isoforms.
Purification:	RNF8 Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	RNF8
Alternative Name:	RNF8 (RNF8 Products)
Background:	RNF8 Antibody: RNF8 was identified as a ubiquitin ligase (E3) containing a RING finger motif

Target Details

and a FHA domain. This protein has been shown to interact with several class II ubiquitin-conjugating enzymes including UBE2E1/UBCH6, UBE2E2, and UBE2E3. RNF8 assembles at DNA double-strand breaks (DSBs) via interactions through the FHA domain with the adaptor protein MDC1, resulting in an increase in DSB-associated H2A histone ubiquitinations mediated by the associated ubiquitin ligase RNF168 followed by the accumulation of 53BP1 and BRCA1 repair proteins. Together with RNF168, RNF8 plays an integral part of class switch recombination in B cells, allowing the production of several classes of antibodies, through the recruitment of 53BP1 and BRCA1 to the DSB sites.

Molecular Weight: Predicted: 46, 53 kDa

Observed: 50 kDa

Gene ID: 9025

NCBI Accession: [NP_003949](#)

UniProt: [O76064](#)

Pathways: [Production of Molecular Mediator of Immune Response](#)

Application Details

Application Notes: RNF8 antibody can be used for detection of RNF8 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunofluorescence starting at 20 µg/mL. For immunofluorescence start at 20 µg/mL.

Antibody validated: Western Blot in human samples and Immunofluorescence in rat samples.
All other applications and species not yet tested.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: RNF8 Antibody is supplied in PBS containing 0.02 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

should be handled by trained staff only.

Storage: -20 °C, 4 °C

Storage Comment: RNF8 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.