

## Product datasheet for **TA319765**

### RNF8 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, WB
Recommended Dilution:	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.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	RNF8 antibody was raised against a 14 amino acid synthetic peptide near the carboxy terminus of human RNF8.
Specificity:	At least three isoforms of RNF8 are known to exist; this antibody will detect all three isoforms.
Formulation:	RNF8 Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	RNF8 Antibody is affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	ring finger protein 8
Database Link:	<a href="#">NP_003949</a> <a href="#">Entrez Gene 58230 Mouse</a> <a href="#">Entrez Gene 361815 Rat</a> <a href="#">Entrez Gene 9025 Human</a> <a href="#">O76064</a>



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**Background:**

RNF8 Antibody: RNF8 was identified as a ubiquitin ligase (E3) containing a RING finger motif 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.

**Synonyms:**

hRNF8