antibodies

# Datasheet for ABIN7151156 anti-RNF168 antibody (AA 194-296)

I Image



### Overview

Quantity:	100 µg
Target:	RNF168
Binding Specificity:	AA 194-296
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RNF168 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC)

### Product Details

Immunogen:	Recombinant Human E3 ubiquitin-protein ligase RNF168 protein (194-296AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

## Target Details

Target:	RNF168
Alternative Name:	RNF168 (RNF168 Products)
Background:	Background: E3 ubiquitin-protein ligase required for accumulation of repair proteins to sites of
	DNA damage. Acts with UBE2N/UBC13 to amplify the RNF8-dependent histone ubiquitination.

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	Recruited to sites of DNA damage at double-strand breaks (DSBs) by binding to ubiquitinated
	Recruited to sites of DNA damage at double-straind breaks (DSBS) by binding to ubiquitinated
	histone H2A and H2AX and amplifies the RNF8-dependent H2A ubiquitination, promoting the
	formation of 'Lys-63'-linked ubiquitin conjugates. This leads to concentrate ubiquitinated
	histones H2A and H2AX at DNA lesions to the threshold required for recruitment of TP53BP1
	and BRCA1. Also recruited at DNA interstrand cross-links (ICLs) sites and promotes
	accumulation of 'Lys-63'-linked ubiquitination of histones H2A and H2AX, leading to recruitment
	of FAAP20/C1orf86 and Fanconi anemia (FA) complex, followed by interstrand cross-link repair.
	H2A ubiquitination also mediates the ATM-dependent transcriptional silencing at regions
	flanking DSBs in cis, a mechanism to avoid collision between transcription and repair
	intermediates. Also involved in class switch recombination in immune system, via its role in
	regulation of DSBs repair. Following DNA damage, promotes the ubiquitination and degradation
	of JMJD2A/KDM4A in collaboration with RNF8, leading to unmask H4K20me2 mark and
	promote the recruitment of TP53BP1 at DNA damage sites. Not able to initiate 'Lys-63'-linked
	ubiquitination in vitro, possibly due to partial occlusion of the UBE2N/UBC13-binding region.
	Catalyzes monoubiquitination of 'Lys-13' and 'Lys-15' of nucleosomal histone H2A (H2AK13Ub
	and H2AK15Ub, respectively).
	Aliases: E3 ubiquitin protein ligase RNF168 antibody, E3 ubiquitin-protein ligase RNF168
	antibody, FLJ35794 antibody, FLJ39749 antibody, hRNF168 antibody, RING finger protein 168
	antibody, RN168_HUMAN antibody, RNF 168 antibody, Rnf168 antibody
UniProt:	Q8IYW5
UniProt: Pathways:	Q8IYW5 Production of Molecular Mediator of Immune Response
Pathways:	
Pathways: Application Details	Production of Molecular Mediator of Immune Response
Pathways: Application Details Application Notes: Restrictions:	Production of Molecular Mediator of Immune Response Recommended dilution: IHC:1:500-1:1000,
Pathways: Application Details Application Notes: Restrictions: Handling	Production of Molecular Mediator of Immune Response   Recommended dilution: IHC:1:500-1:1000,   For Research Use only
Pathways: Application Details Application Notes: Restrictions:	Production of Molecular Mediator of Immune Response Recommended dilution: IHC:1:500-1:1000,
Pathways: Application Details Application Notes: Restrictions: Handling	Production of Molecular Mediator of Immune Response   Recommended dilution: IHC:1:500-1:1000,   For Research Use only
Pathways: Application Details Application Notes: Restrictions: Handling Format:	Production of Molecular Mediator of Immune Response   Recommended dilution: IHC:1:500-1:1000,   For Research Use only   Liquid
Pathways: Application Details Application Notes: Restrictions: Handling Format:	Production of Molecular Mediator of Immune Response   Recommended dilution: IHC:1:500-1:1000,   For Research Use only   Liquid   Preservative: 0.03 % Proclin 300
Pathways: Application Details Application Notes: Restrictions: Handling Format: Buffer:	Production of Molecular Mediator of Immune Response   Recommended dilution: IHC:1:500-1:1000,   For Research Use only   Liquid   Preservative: 0.03 % Proclin 300   Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

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### Handling

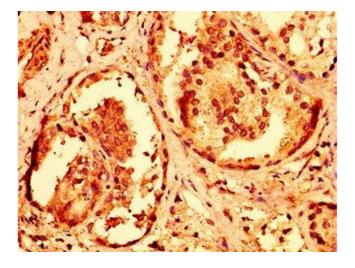
Storage:

-20 °C,-80 °C

Storage Comment:

Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

### Images



### Immunohistochemistry

**Image 1.** IHC image of ABIN7151156 diluted at 1:600 and staining in paraffin-embedded human prostate cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10 % normal goat serum 30 min at RT. Then primary antibody (1 % BSA) was incubated at 4 °C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.