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Datasheet for 600-401-EB1

RNF168 Antibody

Overview

Description:	Anti-RNF168 (RABBIT) Antibody - 600-401-EB1
Item No.:	600-401-EB1
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	RNF168 was identified as a chromatin-associated RING finger protein that acts as a ubiquitin ligase both in vitro and in vivo. RNF168 targets histones H2A and H2AX, but not H2B, forming K63 polyubiquitin chains. Upon formation of DNA double strand breaks, RNF168 is recruited to the site of DNA damage where it co-localizes with gammaH2AX and 53BP1 in an RNF8-dependent manner. This localization of RNF168 increases the local concentration of ubiquinated proteins to the threshold required for retention of the proteins 53BP1 and BRCA1, facilitating the downstream signaling cascade. Thus, RNF168 defines a new pathway demonstrating a functional cooperation between E3 ligases in genome maintenance. At least three isoforms of RNF168 are known to exist.
Synonyms:	RNF168 Antibody, hRNF168, E3 ubiquitin-protein ligase RNF168, RING finger protein 168, hRNF168
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	RNF168
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-RNF168 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid synthetic peptide from near the C-terminus of human RNF168.
Purity/Specificity:	Anti-RNF168 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with RNF168 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q8IYW5 • GeneID - 165918 • NCBI - NP_689830

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-RNF168 Antibody has been tested for use in ELISA and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 65 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
WB:	1 µg/mL

Formulation

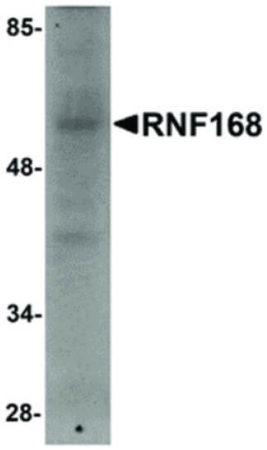
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western Blot of RNF168 antibody. Lane 1: Human brain tissue lysate with RNF168 antibody at 1 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 65 kDa, 65 kDa for RNF168. Other band(s): RNF168 splice variants and isoforms.

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