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Datasheet for ABIN500624 anti-RNF168 antibody (C-Term)

1 Image

1 Publication



Overview

Quantity:	0.1 mg
Target:	RNF168
Binding Specificity:	C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RNF168 antibody is un-conjugated
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	RNF168 antibody was raised against an 18 amino acid peptide from near the carboxy terminus of human RNF168.
Isotype:	lgG
Specificity:	This antibody detects RNF168.
Cross-Reactivity (Details):	Species reactivity (tested):Human, mouse
Purification:	Peptide affinity chromatography

Target Details

Target:	RNF168
Alternative Name:	RNF168 (RNF168 Products)

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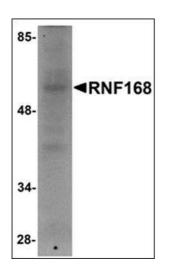
Target Details

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: E3 ubiquitin-protein ligase RNF168,
	RING finger protein 168
Gene ID:	165918
NCBI Accession:	NP_689830
UniProt:	Q8IYW5
Pathways:	Production of Molecular Mediator of Immune Response
Application Details	
Application Notes:	ELISA. Western blot: 1 - 2 μg/mL.
	Other applications not tested.
	Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only
Handling	
Buffer:	PBS containing 0.02 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer.

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Suzuki, Fujisawa, Ando, Niino, Ohsawa, Shimokata, Ohta: "Alcohol dehydrogenase 2 variant is associated with cerebral infarction and lacunae." in: **Neurology**, Vol. 63, Issue 9, pp. 1711-3, (2004) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of RNF168 in human brain tissue lysate with this product at $1 \mu g/ml$.