

# Immunotag™ RNF2 Antibody

Antibody Specification	
Catalog No.	ITA7464
Product Description	Immunotag™ RNF2 Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	RNF2
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC,ELISA
Recommended Dilution	WB 1:500-1:2000 IHC 1:50-1:200
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human RNF2
Specificity	RNF2 Antibody detects endogenous levels of total RNF2
Purification	The antiserum was purified by peptide affinity chromatography.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	RNF2
Accession No.	Q99496

## Antibody Specification

Alternate Names	BAP 1; BAP1; DING; DinG protein; E3 ubiquitin protein ligase RING 2; E3 ubiquitin protein ligase RING2; E3 ubiquitin-protein ligase RING2; HIP2 interacting protein 3; HIP2-interacting protein 3; HIPI 3; HIPI3; Huntingtin interacting protein 2 interacting protein 3; Huntingtin-interacting protein 2-interacting protein 3; OTTHUMP00000060668; Polycomb M33 interacting protein Ring 1B; Polycomb M33 interacting protein Ring1B; Protein DinG; RING 1B; RING 2; RING finger protein 1B; RING finger protein 2; RING finger protein BAP 1; RING finger protein BAP-1; RING finger protein BAP1; RING1b; RING2_HUMAN; RNF 2; Rnf2;
Description	E3 ubiquitin-protein ligase that mediates monoubiquitination of 'Lys-119' of histone H2A (H2AK119Ub), thereby playing a central role in histone code and gene regulation (PubMed:15386022, PubMed:16359901, PubMed:25519132, PubMed:21772249, PubMed:25355358, PubMed:26151332). H2AK119Ub gives a specific tag for epigenetic transcriptional repression and participates in X chromosome inactivation of female mammals. May be involved in the initiation of both imprinted and random X inactivation (By similarity). Essential component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development (PubMed:16359901, PubMed:26151332). PcG PRC1 complex acts via chromatin remodeling and modification of histones, rendering chromatin heritably changed in its expressibility (PubMed:26151332). E3 ubiquitin-protein ligase activity is enhanced by BMI1/PCGF4 (PubMed:21772249). Acts as the main E3 ubiquitin ligase on histone H2A of the PRC1 complex, while RING1 may rather act as a modulator of RNF2/RING2 activity (Probable). Association with the chromosomal DNA is cell-cycle dependent. In resting B- and T-lymphocytes, interaction with AURKB leads to block its activity, thereby maintaining transcription in resting lymphocytes (By similarity).
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	37kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.