

# Immunotag™ UIMC1 Polyclonal Antibody

Antibody Specification	
Catalog No.	ITN1481
Product Description	Immunotag™ UIMC1 Polyclonal Antibody
Size	50 µg, 100 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	UIMC1
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Reactive Species	Human,Rat,Mouse
Host Species	Rabbit
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	UIMC1 Polyclonal Antibody detects endogenous levels of protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Gene Name	UIMC1 RAP80 RXRIP110
Accession No.	Q96RL1 Q5U5Q9 Q5PQK4
Description	ubiquitin interaction motif containing 1(UIMC1) Homo sapiens This gene encodes a nuclear protein that interacts with Brca1 (breast cancer 1) in a complex to recognize and repair DNA lesions. This protein binds ubiquitinated lysine 63 of histone H2A and H2AX. This protein may also function as a repressor of transcription. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015],

## Antibody Specification

Protein Expression	Epithelium,Hypothalamus,Oesophageal carcinoma,Ovary,Skin,Teratocarc
Subcellular Localization	nucleus,nucleoplasm,BRCA1-A complex,
Protein Function	<p>domain:The Abraxas-interacting region (AIR) mediates the interaction with FAM175A/Abraxas.,domain:The UIM-linker region between the 2 UIM repeats determines the selectivity for 'Lys-63'-linked ubiquitin. The length of the linker is important. The linker reduces the flexibility between the UIM repeats and promotes high-affinity and linkage-selective interactions.,function:Ubiquitin-binding protein that specifically recognizes and binds 'Lys-63'-linked ubiquitin. Plays a central role in the BRCA1-A complex by specifically binding 'Lys-63'-linked ubiquitinated histones H2A and H2AX at DNA lesions sites, leading to target the BRCA1-BARD1 heterodimer to sites of DNA damage at double-strand breaks (DSBs). The BRCA1-A complex also possesses deubiquitinase activity that specifically removes 'Lys-63'-linked ubiquitin on histones H2A and H2AX. Also weakly binds monoubiquitin but with much less affinity than 'Lys-63'-linked ubiquitin. May interact with monoubiquitinated histones H2A and H2B; the relevance of such results is however unclear in vivo. Does not bind Lys-48'-linked ubiquitin. May indirectly Act as a transcriptional repressor by inhibiting the interaction of NR6A1 with the corepressor NCOR1.,PTM:Phosphorylated upon DNA damage by ATM or ATR.,PTM:Sumoylated.,sequence caution:Translated as Glu.,similarity:Belongs to the RAP80 family.,similarity:Contains 2 UIM (ubiquitin-interacting motif) repeats.,subcellular location:Localizes at sites of DNA damage at double-strand breaks (DSBs).,subunit:Interacts with TSP57 (By similarity). Component of the BRCA1-A complex, at least composed of the BRCA1, BARD1, UIMC1/RAP80, FAM175A/Abraxas, BRCC3/BRCC36, BRE/BRCC45 and MERIT40/NBA1. In the BRCA1-A complex, interacts directly with FAM175A/Abraxas. Interacts with ESR1, NR6A1 and UBE2L.,tissue specificity:Expressed in testis, ovary, thymus and heart. Expressed in germ cells of the testis.,</p>
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.