

Datasheet: HCA117A

Description:	HUMAN ANTI Ki67
Specificity:	Ki67
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD02815
Isotype:	HuCAL Fab bivalent
Quantity:	50 µg

Product Details

Applications	This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.				
		res	NO	Not Determined	Suggested Dilution

					ouggested bildtion	
	Flow Cytometry			•		
	Immunohistology - Frozen					
	Immunohistology - Paraffin (1)	-			1/50 - 1/200	
	ELISA	-				
	Immunoprecipitation					
	Western Blotting					
	Functional Assays					
	Where this product has not	been tested	I for use in	a particular technic	que this does not necessarily	
	exclude its use in such proc	exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is				
	recommended that the user	r titrates the	product for	use in their own s	vstem using appropriate	
	negative/positive controls.				, - J - FF - F - H	
	•	ntigen retri	ioval usin	n hoat troatmont n	rior to staining of paraffin	
	sections.Sodium citrate b	-	-	-		
	Sections.Sourain citrate b		J IS IECOIII	menueu for this p	urpose.	
Target Species	Human					
Product Form	E. coli. This Fab fragment is	s bivalent by ged with a D	v dimerizati OYKDDDDI	on of the bacterial a K tag and a HIS-tag	e display library, expressed in alkaline phosphatase fusion g (HHHHHH) at the C-terminus	
Product Form Reconstitution	<i>E. coli.</i> This Fab fragment is protein. The antibody is tag	s bivalent by ged with a E . This antibo	v dimerizati OYKDDDDI	on of the bacterial a K tag and a HIS-tag	alkaline phosphatase fusion	
	<i>E. coli.</i> This Fab fragment is protein. The antibody is tag of the antibody heavy chain	s bivalent by ged with a E . This antibo illed water	v dimerizati OYKDDDDI	on of the bacterial a K tag and a HIS-tag	alkaline phosphatase fusion	
Reconstitution	<i>E. coli.</i> This Fab fragment is protein. The antibody is tag of the antibody heavy chain Reconstitute with 0.5ml dist	s bivalent by ged with a E . This antibo illed water	v dimerizati OYKDDDDI	on of the bacterial a K tag and a HIS-tag	alkaline phosphatase fusion	
Reconstitution Preparation Buffer Solution	 <i>E. coli.</i> This Fab fragment is protein. The antibody is tag of the antibody heavy chain Reconstitute with 0.5ml dist metal chelate affinity chrom Phosphate buffered saline 	s bivalent by ged with a E I. This antibo illed water atography	v dimerizati OYKDDDDI	on of the bacterial a K tag and a HIS-tag	alkaline phosphatase fusion	
Reconstitution Preparation Buffer Solution Preservative	 <i>E. coli.</i> This Fab fragment is protein. The antibody is tag of the antibody heavy chain Reconstitute with 0.5ml dist metal chelate affinity chrom Phosphate buffered saline 0.09% Sodium Azide (NaNa) 	s bivalent by ged with a E I. This antibo illed water atography	v dimerizati OYKDDDDI	on of the bacterial a K tag and a HIS-tag	alkaline phosphatase fusion	
Reconstitution Preparation Buffer Solution	 <i>E. coli.</i> This Fab fragment is protein. The antibody is tag of the antibody heavy chain Reconstitute with 0.5ml dist metal chelate affinity chrom Phosphate buffered saline 	s bivalent by ged with a E I. This antibo illed water atography	v dimerizati OYKDDDDI	on of the bacterial a K tag and a HIS-tag	alkaline phosphatase fusion	
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Concentrations

Immunogen	Peptide derived from the human Ki-67 protein. Sequence GFKELFQTPG, coupled via a C-terminal cysteine to carrier proteins.
External Database Links	UniProt: <u>P46013</u> <u>Related reagents</u> Entrez Gene: <u>4288</u> MKI67 <u>Related reagents</u>
Specificity	 Human anti Ki67 antibody, clone 2815 recognizes the sequence GFKELFQ, which can be found eight times on the human Ki67 protein. Ki-67 antigen is expressed in proliferating cells but not in quiescent cells. Expression of this antigen occurs preferentially during late G1, S, G2, and M phases of the cell cycle, while in cells in G0 phase the antigen cannot be detected. Consequently, Ki-67 antigen expression is used in tumor pathology to detect proliferating cells in neoplastic diseases. In cultured cells, Ki-67 is expressed in the nucleolus of interphase cells. The Ki-67 gene contains 15 exons. The Ki-67 repeat region, within which there is a 22-amino acid Ki-67 motif, is encoded by exon 13. The shorter isoform lacks exon 7. Northern blot analysis revealed multiple transcripts ranging from approximately 8.9 to 12.5 kb in proliferating but not quiescent cells. Immunoblot analysis showed expression of 320- and 359-kDa proteins. Sequence analysis predicted that the short-lived 2,896- and 3,256-amino acid protein isoforms contain potential nuclear targeting signals, over 200 potential phosphorylation sites, 19 N-myristoylation sites, 3 amidation sites, and numerous PEST sites. Antisense oligonucleotides inhibited cellular proliferation in a dose-dependent manner, suggesting that Ki-67 protein expression may be an absolute requirement for cell proliferation.
ELISA	This product is suitable for use in direct ELISA applications. Due to the presence of bovine serum albumin (BSA), this antibody is unsuitable for use as a capture reagent in sandwich ELISA applications. This product is also available without BSA, <u>please enquire</u> .
Histology Positive Control Tissue	Human tonsil
Storage	Prior to reconstitution store at +4°C. After reconstitution store at -20°C. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	12 months from date of reconstitution.
Acknowledgements	Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad, Zeppelinstr. 4, 82178 Puchheim, Germany.
Health And Safety Information	Material Safety Datasheet documentation available at: Material Safety Datasheet Documentation #10041 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
Licensed Use	For in vitro research purposes only, unless otherwise specified in writing by Bio-Rad.

Regulatory	
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For research purposes only

 Technical Advice
 Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the HuCAL Antibodies Technical Manual

Related Products

Recommended Secondary Antibodies

Rat Anti Synthetic Peptide DYKDDDDK TAG (MCA4764...) <u>HRP</u> Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA5995...)<u>HRP</u>

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