

Datasheet: MCA5944GT BATCH NUMBER 152401

Description: MOUSE ANTI BRCA1 (N-TERMINAL) Specificity: BRCA1 (N-TERMINAL) BREAST CANCER TYPE 1 SUSCEPTIBILITY PROTEIN Other names: Format: Purified Product Type: Monoclonal Antibody Clone: BR64 lgG1 Isotype: 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 <u>www.bio-</u>					
	rad-antibodies.com/proto	- · · · <u> </u>					
		Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry			•			
	Immunohistology - Frozen			•			
	Immunohistology - Paraffin						
	ELISA						
	Immunoprecipitation	-					
	Western Blotting	-					
	Where this product has not been tested for use in a particular technique this does not						
	necessarily exclude its us a guide only. It is recomm	se in such nended th	n procedu nat the use	res. Suggested workin er titrates the product f	ng dilutions are given a		
Target Species	necessarily exclude its us a guide only. It is recomm system using appropriate	se in such nended th	n procedu nat the use	res. Suggested workin er titrates the product f	ng dilutions are given a		
	necessarily exclude its us a guide only. It is recomm system using appropriate Human	se in such nended th	n procedu nat the use	res. Suggested workin er titrates the product f	ng dilutions are given a		
Species Cross	necessarily exclude its us a guide only. It is recomm system using appropriate Human Reacts with: Mouse	se in such nended th e negative	n procedu nat the use e/positive	res. Suggested workin er titrates the product t controls.	ng dilutions are given a for use in their own		
Species Cross	necessarily exclude its us a guide only. It is recomm system using appropriate Human Reacts with: Mouse N.B. Antibody reactivity a	se in such nended th negative and workin	n procedu nat the use e/positive ng conditi	res. Suggested workin er titrates the product t controls.	ng dilutions are given a for use in their own n species. Cross		
Species Cross	necessarily exclude its us a guide only. It is recomm system using appropriate Human Reacts with: Mouse N.B. Antibody reactivity a reactivity is derived from	se in such nended th e negative and workin testing wi	n procedu nat the use e/positive ng conditi ithin our la	res. Suggested workin er titrates the product f controls. ons may vary betweer aboratories, peer-revie	ng dilutions are given a for use in their own n species. Cross ewed publications or		
Target Species Species Cross Reactivity	necessarily exclude its us a guide only. It is recomm system using appropriate Human Reacts with: Mouse N.B. Antibody reactivity a	se in such nended th e negative and workin testing wi	n procedu nat the use e/positive ng conditi ithin our la	res. Suggested workin er titrates the product f controls. ons may vary betweer aboratories, peer-revie	ng dilutions are given a for use in their own n species. Cross ewed publications or		
Species Cross	necessarily exclude its us a guide only. It is recomm system using appropriate Human Reacts with: Mouse N.B. Antibody reactivity a reactivity is derived from personal communications	se in such nended th e negative and workin testing wi	n procedu nat the use e/positive ng conditi ithin our la	res. Suggested workin er titrates the product f controls. ons may vary betweer aboratories, peer-revie	ng dilutions are given a for use in their own n species. Cross ewed publications or		

	supernatant				
Buffer Solution	Phosphate buffered saline				
Preservative Stabilisers	0.1% Sodium Azide (NaN ₃)				
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml				
Immunogen	Purified protein corresponding to amino acids 1-100 within the N-Terminal region of Human BRCA1.				
External Database Links	UniProt: $P38398$ Related reagents $P48754$ Related reagentsEntrez Gene: 672 BRCA1Related reagents 12189 Brca1Related reagents				
Synonyms	RNF53				
Fusion Partners	Spleen cells from immunised mice were fused with cells of the mouse NSI myeloma cell line.				
Specificity	 Mouse anti Human BRCA1 antibody, clone BR64 recognizes an epitope within the100 amino acid N-Terminal (NT) regionof human BRCA1, otherwise known as breast cancer type 1 susceptibility protein, a tumor suppressor gene and major player in DNA damage repair, predominantly expressed in the nucleus during the S/G2 phase of the cell cycle. Along with BRCA2, BRCA1 is a high risk gene which is associated with hereditary breast and ovarian cancers, particularly at a younger age of diagnosis. Women carrying the BRCA1 mutation have a 50-95% chance of developing breast cancer in later life, but genetic screening and increased awareness of preventative surgery can reduce this risk significantly (Ford <i>et al.</i> 1994). Deleterious BRCA1 mutations may also increase the risk of other cancers in both males and females including pancreatic cancer, although in males pancreatic and prostate cancer appear to be more strongly associated with BRCA2 gene mutations. BRCA1 is a key marker of triple-negative breast cancer/TNBC (ER-/PR-/HER2-), a high risk aggressive cancer which makes up about 15% of invasive breast cancers, and which lacks the benefit of specific therapy that targets the three major proteins ER/PR/HER2. Triple-negative tumors are predominantly basal-like, poorly differentiated and of higher histological grade. Younger women have an increased rate of basal or BRCA related TNBC, compared with the higher proportion of apocrine, normal-like and rare subtypes of TNBC, seen in older women. 				

	During the characterization of clone BR64, it was determined that this antibody can be used in the identification of both native and denatured BRCA1, recognizing an epitope within amino acids 80-100 (Maul, G.G. <i>et al.</i>).
	Mouse anti Human BRCA1 antibody, clone BR64 is suitable for use in immunofluorescence, showing both a nuclear distribution and reaction with the centrosome.
Western Blotting	Please refer to <u>Maul, G.G. <i>et al.</i></u> for details.
Storage	Store at +4°C or at -20°C if preferred.
	This product should be stored undiluted.
	Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA5944GT 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77)	HRP				
Rabbit Anti Mouse IgG (STAR12)	RPE				
Goat Anti Mouse IgG IgA IgM (STAR87	Alk. Phos., HRP				
Goat Anti Mouse IgG (STAR76)	RPE				
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP				
Rabbit Anti Mouse IgG (STAR13)	HRP				
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>				
Goat Anti Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, DyLight®550,				
	DyLight®650, DyLight®680, DyLight®80	<u>0,</u>			
	<u>FITC, HRP</u>				
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>				
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M368503:200529'

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