

RAD51 Monoclonal Mouse Antibody (RAD51/2702)



Product Description

RAD51 is one of the key factors of DNA repair by homologous recombination and has been shown to have anti-apoptotic activity in tumor cells. RAD51 protein interacts with a variety of tumor suppressor proteins including p53, BRCA1 and BRCA2. Elevated expression of RAD51 enhances radio-resistance of human tumor cells. Overexpression of RAD51 protein in tumor cells renders them resistant against cytotoxic drugs like Cisplatin. RAD51 interacts with BRCA1 and BRCA2 to influence subcellular localization and cellular response to DNA damage. BRCA2 inactivation may be a key event leading to genomic instability and tumorigenesis from deregulation of RAD51. High-level expression of RAD51 has been observed in a variety of human malignancies. RAD51 overexpression correlates with histological grading of the tumor in invasive ductal mammary carcinoma.

Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. See the CF® Dye Brochure for more information. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

Stock status: Because Biotium offers a large number of antibody and conjugation options, primary antibody conjugates may be made to order. Typical lead times are up to one week for CF® dye and biotin conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Please email order@biotium.com to inquire about stock status and lead times before placing your order.

Catalog number key for antibody number 2702, Anti-RAD51 (RAD51/2702)

Call us : 800-304-5357

Email: techsupport@biotium.com

Product attributes

Antibody reactivity (target)RAD51Antibody typePrimaryHost speciesMouseClonalityMonoclonalCloneRAD51/2702IsotypeIgG1, kappaMolecular weight37 kDaSynonymsRCA1/BRCA2 containing complex; subunit 5; BRCC5; DNA repair protein RAD51; FANCF; HsT16930; MRMV2; RAD51; RAD51 recombinase; RAD51A; RECA; RecA like protein; Recombination protein AHuman gene symbolRAD51Entrez gene ID5888SwissProtQ06609Unigene631709ImmunogenRecombinant fragment of human RAD51 protein (around aa 1-134) (exact sequence is proprietary)Verified antibody applicationsFlow (intracellular) (verified), IHC (FFPE) (verified)Species reactivityHumanPositive controlK562, HeLa, MCF-7 cells. Colon or breast Carcinoma.Shipping conditionRoom temperatureStorage ConditionsStore at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °CRegulatory statusFor research use only (RUO)Antibody(conjugate formulationConjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS without azideValidated in protein arrayMonospecificShell lifeGuaranteed for at least 24 months from date of receipt when stored as recommended	Product attributes				
Antibody type Primary Host species Mouse Clonality Moncolonal Clone RAD51/2702 Isotype IgG1, kappa Molecular weight 37 kDa Synonyms RCA1/BRCA2 containing complex; subunit 5; BRCC5; DNA repair protein RAD51; FANCR; HsT16330; MRMV2; RAD51; RAD51 recombinase; RAD51A; RECA; RecA like protein; Recombination protein A Human gene symbol RAD51 Entrez gene ID 5888 SwissProt Q06609 Unigene 631709 Immunogen Recombinant fragment of human RAD51 protein (around aa 1-134) (exact sequence is proprietary) Verified antibody applications Flow (intracellular) (verified), IHC (FFPE) (verified) Species reactivity Human Positive control K562, HeLa, MCF-7 cells. Colon or breast Carcinoma. Shipping condition Room temperature Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C Regulatory status For research use only (RUO) Antibody/conjugate formulation Conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA, Ou5% saide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA	Antibody number	#2702			
Host speciesMouseClonalityMonoclonalCloneRAD51/2702IsotypeIgG1, kappaMolecular weight37 kDaSynonymsRCA1/BRCA2 containing complex; subunit 5; BRCC5; DNA repair protein RAD51; FANCR; HsT16330; MRMV2; RAD51; RAD51 recombinase; RAD51A; RECA; RecA like protein; Recombination protein AHuman gene symbolRAD51Entrez gene ID5888SwissProtQ06609Unigene631709ImmunogenRecombinant fragment of human RAD51 protein (around aa 1-134) (exact sequence is proprietary)Verified antibody applicationsFlow (intracellular) (verified), IHC (FFPE) (verified) applicationsSpecies reactivityHumanPositive controlK562, HeLa, MCF-7 cells. Colon or breast Carcinoma.Shipping conditionRoom temperatureStorage ConditionsStore at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA/ree antibodies at -10 to -35 °CRegulatory statusFor research use only (RUO)Antibody/conjugate formulationConjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PB	Antibody reactivity (target)	RAD51			
ClonalityMonoclonalCloneRAD51/2702IsotypeIgG1, kappaMolecular weight37 kDaSynonymsRCA1/BRCA2 containing complex; subunit 5; BRCC5; DNA repair protein RAD51; FANCR; HsT16330; MRMV2; RAD51; RAD51 recombinase; RAD51A; RECA; RecA like protein; Recombination protein AHuman gene symbolRAD51Entrez gene ID5888SwissProtQ06609Unigene631709ImmunogenRecombinant fragment of human RAD51 protein (around aa 1-134) (exact sequence is proprietary)Verified antibody applicationsFlow (intracellular) (verified), IHC (FFPE) (verified) applicationsSpecies reactivityHumanPositive controlK562, HeLa, MCF-7 cells. Colon or breast Carcinoma.Shipping conditionRoom temperatureStorage ConditionsStore at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °CRegulatory statusFor research use only (RUO)Antibody/conjugate formulationConjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS	Antibody type	Primary			
CloneRAD51/2702IsotypeIgG1, kappaMolecular weight37 kDaSynonymsRCA1/BRCA2 containing complex; subunit 5; BRCC5; DNA repair protein RAD51; FANCF; HsT16930; MRMV2; RAD51; RAD51 recombinase; RAD51A; RECA; RecA like protein; Recombination protein AHuman gene symbolRAD51Entrez gene ID5888SwissProtQ06609Unigene631709ImmunogenRecombinant fragment of human RAD51 protein (around aa 1-134) (exact sequence is proprietary)Verified antibody applicationsFlow (intracellular) (verified), IHC (FFPE) (verified)Species reactivityHumanPositive controlK562, HeLa, MCF-7 cells. Colon or breast Carcinoma.Shipping conditionRoom temperatureStorage ConditionsStore at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °CRegulatory statusFor research use only (RUO)Antibody/conjugate formulationConjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA, Purified:	Host species	Mouse			
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bovine serum (Bos taurus), or recombinant BSA produced in	Shelf life				
	Product origin	bovine serum (Bos taurus), or recombinant BSA produced in			

Antibody # prefix	Conjugation	Ex/Em (nm)	Laser line	Detection channel	Dye Features
BNC04	CF®405S	404/431	405	DAPI (microscopy), AF405	CF®405S Features
BNC88	CF®488A	490/515	488	GFP, FITC	CF®488A Features
BNC68	CF®568	562/583	532, 561	RFP, TRITC	CF®568 Features
BNC94	CF®594	593/614	561	Texas Red®	CF®594 Features
BNC40	CF®640R	642/662	633-640	Cy®5	CF®640R Features
BNC47	CF®647	650/665	633-640	Cy®5	CF®647 Features
BNC74	CF®740	742/767	633-685	775/50	CF®740 Features
BNCB	Biotin	N/A	N/A	N/A	
BNUB	Purified	N/A	N/A	N/A	
BNUM	Purified, BSA-free	N/A	N/A	N/A	

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