

ABRA1 Monoclonal Antibody (ABRA1-01)

Catalog Number      MA1-10045

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Mouse / IgG2a, kappa	Tested Applications	
Class	Monoclonal	Flow Cytometry (Flow)	1-2 µg/mL
Type	Antibody	Immunoprecipitation (IP)	Assay-dependent
Clone	ABRA1-01	Western Blot (WB)	Assay-dependent
Immunogen	Recombinant protein corresponding to amino acids 1-313 of ABRA1 with N-terminal His6 tag		
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1 mg/mL		
Purification	Protein A		
Storage buffer	PBS, pH 7.4		
Contains	15mM sodium azide		
Storage Conditions	4° C, do not freeze		

\* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

**Product specific information**

This antibody recognizes the N-terminal part of ABRA1 (Abraxas, CCDC98), which migrates as a 45 kDa band on PAAGE under reducing conditions. Western Blot: Reducing conditions.

**Background/Target Information**

CCDC98, also known as Abraxas 1, was identified through protein binding studies using the breast and ovarian predisposition protein BRCA1 as the binding target. CCDC98 recruits RAP80, a ubiquitin-binding protein, to BRCA1, allowing the formation of BRCA1 foci in response to DNA damage caused by ionizing radiation. Both CCDC98 and RAP80 are required for DNA damage resistance, G2-M checkpoint control, and DNA repair. Cells depleted of either CCDC98 or RAP80 exhibited increased sensitivity to ionizing radiation, although not as much as in BRCA1-depleted cells, suggesting that CCDC98 and RAP80 control only part of the DNA damage response role of BRCA1. At least two isoforms of CCDC98 are known to exist.

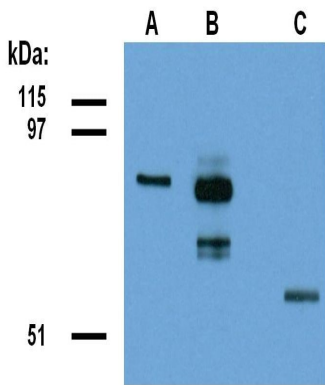
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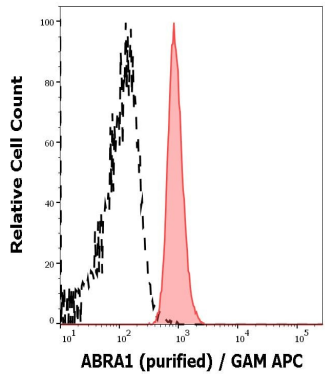
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Product Images For ABRA1 Monoclonal Antibody (ABRA1-01)



ABRA1 Antibody (MA1-10045) in WB

Western blotting detection of ABRA1-EGFP fusion protein in lysate of transfected HEK293 cells. Lane A: Immunostaining with anti-ABRA1 (clone ABRA1-01) Monoclonal antibody (Product # MA1-10045). Lane B: Immunostaining with anti-EGFP (polyclonal). Lane C: Immunostaining with anti-alpha tubulin (clone TU-01).



ABRA1 Antibody (MA1-10045) in Flow

Separation of MOLT-4 cells stained using anti-ABRA1 (ABRA1-01) purified Monoclonal antibody (Product # MA1-10045) (concentration in sample 9 µg/mL, GAM APC, red-filled) from MOLT-4 cells unstained by primary antibody (GAM APC, black-dashed) in flow cytometry analysis (intracellular staining).

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