

## TECHNICAL DATA SHEET

### CyFlow™ ABRA1 Purified Anti-Hu; Clone ABRA1-01

**REF** AP667270

**For Research Use Only.  
Not for use in diagnostic or therapeutic procedures.**

### Specifications

<b>Antigen</b>	ABRA1
<b>Alternative Names</b>	—
<b>Clone</b>	ABRA1-01
<b>Clonality</b>	monoclonal
<b>Format</b>	Purified
<b>Host / Isotype</b>	Mouse / IgG
<b>Species Reactivity</b>	Human
<b>Negative Species Reactivity</b>	—
<b>Quantity [Concentration]</b>	0.1 mg [ 1 mg/ml ]
<b>Immunogen</b>	Recombinant protein corresponding to amino acids 1-313 of ABRA1 with N-terminal His6 tag

### Specificity

The mouse monoclonal antibody ABRA1-01 recognizes N-terminal part of ABRA1 antigen, an adaptor protein involved in DNA repair, which migrates as a 45 kDa band on PAAGE under reducing conditions.

#### Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany  
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: [info@sysmex-partec.com](mailto:info@sysmex-partec.com)

## Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation
- Western blot

## Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH  $\approx$ 7.4, containing 0.1% (w/v) sodium azide.

## Storage and Stability

<b>Storage</b>	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
<b>Stability</b>	Do not use after expiration date stamped on vial label.

## Background Information

ABRA1 (Abraxas, CCDC98) is an adaptor protein that is essential for formation and function of BRCA1 A tumor suppressor complex. This complex plays critical roles in DNA repair, cell cycle checkpoint control, and maintenance of genomic stability. ABRA1 mediates interaction of ubiquitin-interacting motif-containing protein RAP80 and deubiquitination enzyme BRCC36 with BRCA1/BARD1. ABRA1 controls both DNA-damage-induced formation of BRCA1 foci and BRCA1-dependent G2/M checkpoint activation.

## References

- Wang B, Elledge SJ: Ubc13/Rnf8 ubiquitin ligases control foci formation of the Rap80/Abraxas/Brca1/Brcc36 complex in response to DNA damage. Proc Natl Acad Sci USA. 2007 Dec 26; 104(52):20759-63. < PMID: 18077395 >
- Wang B, Matsuoka S, Ballif BA, Zhang D, Smogorzewska A, Gygi SP, Elledge SJ: Abraxas and RAP80 form a BRCA1 protein complex required for the DNA damage response. Science. 2007 May 25; 316(5828):1194-8. < PMID: 17525340 >
- Liu Z, Wu J, Yu X: CCDC98 targets BRCA1 to DNA damage sites. Nat Struct Mol Biol. 2007 Aug; 14(8):716-20. < PMID: 17643121 >
- Nikkilä J, Coleman KA, Morrissey D, Pylkäs K, Erkkö H, Messick TE, Karppinen SM, Amelina A, Winqvist R, Greenberg RA: Familial breast cancer screening reveals an alteration in the RAP80 UIM

---

### Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany  
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: [info@sysmex-partec.com](mailto:info@sysmex-partec.com)



domain that impairs DNA damage response function. *Oncogene*. 2009 Apr 23; 28(16):1843-52.  
< PMID: 19305427 >

---

The Safety Data Sheet for this product is available at [www.sysmex-partec.com/services](http://www.sysmex-partec.com/services).

---

---

**Contact Information:**

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany  
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: [info@sysmex-partec.com](mailto:info@sysmex-partec.com)