

# CCDC98 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP58551

#### **Product Information**

**Application** WB, IHC-P, IHC-F, IF, E

**Primary Accession** Q6UWZ7

Reactivity Rat, Pig, Dog, Bovine

Host Rabbit Clonality Polyclonal 46663 Calculated MW **Physical State** Liquid

KLH conjugated synthetic peptide derived from human CCDC98 **Immunogen** 

51-150/409 **Epitope Specificity** Isotype IgG

affinity purified by Protein A **Purity** 

**Buffer** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Nucleus. Note=Localizes at sites of DNA damage at double-strand breaks

(DSBs).

**SIMILARITY** Belongs to the FAM175 family. Abraxas subfamily.

Component of the BRCA1-A complex, at least composed of the BRCA1, BARD1, **SUBUNIT** 

> UIMC1/RAP80, FAM175A/Abraxas, BRCC3/BRCC36, BRE/BRCC45 and BABAM1/NBA1. In the complex, interacts directly with UIMC1/RAP80,

BRCC3/BRCC36 and BRE/BRCC45. Interacts directly (when phosphorylated at

Ser-406) with BRCA1. Binds polyubiquitin.

Post-translational Phosphorylation of Ser-406 of the pSXXF motif by ATM or ATR constitutes a modifications

specific recognition motif for the BRCT domain of BRCA1. Phosphorylated

upon DNA damage, probably by ATM or ATR.

This product as supplied is intended for research use only, not for use in **Important Note** 

human, therapeutic or diagnostic applications.

**Background Descriptions** Component of the BRCA1-A complex, a complex that specifically recognizes

'Lys-63'-linked ubiquitinated histones H2A and H2AX at DNA lesions sites, leading to target the BRCA1-BARD1 heterodimer to sites of DNA damage at

double-strand breaks (DSBs). The BRCA1-A complex also possesses

deubiquitinase activity that specifically removes 'Lys-63'-linked ubiquitin on histones H2A and H2AX. In the BRCA1-A complex, it acts as a central scaffold protein that assembles the various components of the BRCA1-A complex and

mediates the recruitment of BRCA1.

### **Additional Information**

Gene ID 84142

**Other Names** BRCA1-A complex subunit Abraxas 1 {ECO:0000312 | HGNC:HGNC:25829},

Coiled-coil domain-containing protein 98, Protein FAM175A, ABRAXAS1

(HGNC:25829)

**Dilution** WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000

-10000

**Storage** Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

### **Protein Information**

Name ABRAXAS1 ( HGNC:25829)

**Function** Involved in DNA damage response and double-strand break (DSB) repair.

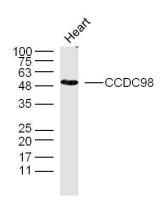
Component of the BRCA1-A complex, acting as a central scaffold protein that assembles the various components of the complex and mediates the recruitment of BRCA1. The BRCA1-A complex specifically recognizes 'Lys-63'-linked ubiquitinated histones H2A and H2AX at DNA lesion sites, leading to target the BRCA1-BARD1 heterodimer to sites of DNA damage at DSBs. This complex also possesses deubiquitinase activity that specifically

removes 'Lys-63'-linked ubiquitin on histones H2A and H2AX.

**Cellular Location**Nucleus Note=Localizes at sites of DNA damage at double-strand breaks

(DSBs)

## **Images**



Sample: Heart (Mouse) Lysate at 40 ug

Primary: Anti-CCDC98 (AP58551) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at

1/20000 dilution

Predicted band size: 47 kD Observed band size: 50 kD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.