

**DBC2 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP58144****Specification****DBC2 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	<a href="#">Q9BYZ6</a>
Reactivity	Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	83 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DBC2
Epitope Specificity	631-727/727
Isotype	IgG
<b>Purity</b>	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the small GTPase superfamily. Rho family. Contains 2 BTB (POZ) domains.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Background Descriptions**

DBC2 is a member of the recently identified RhoBTB family, which is part of the Rho GTPase family. DBC2 has been implicated as a tumor suppressor in breast and lung cancer. Studies have shown that DBC2 binds to the ubiquitin ligase scaffold Cul3, and that Cul3 regulates DBC2 protein levels by ubiquitinating DBC2 directly, leading to its degradation by the proteasome.

**DBC2 Polyclonal Antibody - Additional Information**

**Gene ID** 23221

**Other Names**

Rho-related BTB domain-containing protein 2, Deleted in breast cancer 2 gene protein, p83, RHOBTB2, DBC2, KIAA0717

**Target/Specificity**

Ubiquitous, with highest levels in neural tissues. Expression is also detected in fetal lung, heart, and brain.

**Dilution**

**dilution\_WB** WB ~ 1:1000  
**dilution\_IHC-P** IHC-P ~ N/A  
**dilution\_IHC-F** IHC-F ~ N/A

=[dilution\\_IF](#)>IF~~1:50~200</span><br \><span class =[dilution\\_E](#)>E~~N/A</span>

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**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.

**DBC2 Polyclonal Antibody - Protein Information**

**Name** RHOBTB2

**Synonyms** DBC2, KIAA0717

**Function**

Regulator of cell proliferation and apoptosis (PubMed:<a href="http://www.uniprot.org/citations/21801820" target="\_blank">21801820</a>). It likely functions as a substrate-adaptor that recruits key substrates, e.g. MSI2, to CUL3-based ubiquitin ligase complexes for degradation (PubMed:<a href="http://www.uniprot.org/citations/15107402" target="\_blank">15107402</a>, PubMed:<a href="http://www.uniprot.org/citations/27941885" target="\_blank">27941885</a>). Required for MSI2 ubiquitination and degradation (PubMed:<a href="http://www.uniprot.org/citations/27941885" target="\_blank">27941885</a>).

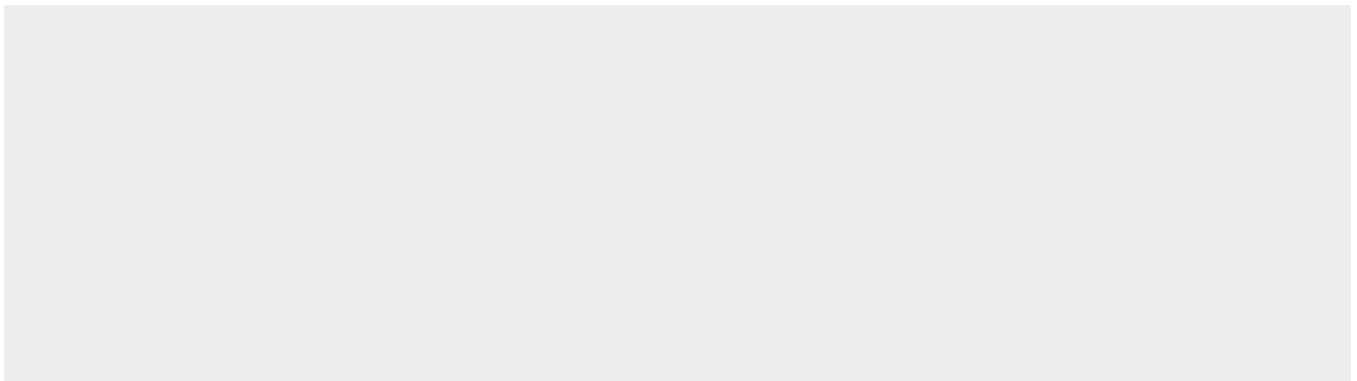
**Tissue Location**

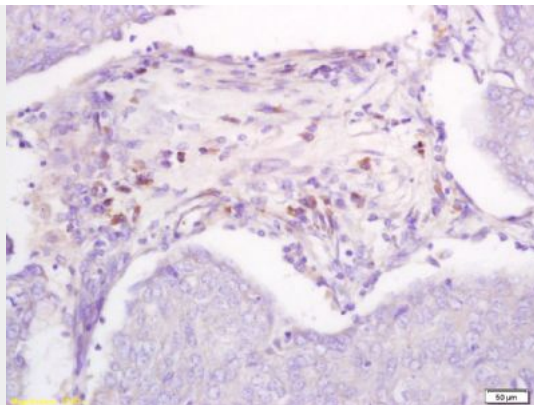
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**DBC2 Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**DBC2 Polyclonal Antibody - Images**



Tissue/cell: human breast carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-DBC2 Polyclonal Antibody, Unconjugated(bs-4274R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining