10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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	Q9BYZ6
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**
Purity	
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
WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \><span class

="dilution_IF">IF~~1:50~200<br \>E~~N/A

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

Storage
Store at -20 ℃ 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 ℃.

DBC2 Polyclonal Antibody - Protein Information

Name RHOBTB2

Synonyms DBC2, KIAA0717

Function
Regulator of cell proliferation and apoptosis (PubMed:21801820). It likely functions as a substrate-adapter that recruits key substrates, e.g. MSI2, to CUL3-based ubiquitin ligase complexes for degradation (PubMed:15107402, PubMed:27941885). Required for MSI2 ubiquitination and degradation (PubMed:27941885).

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

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 Cytomety
- Cell Culture

DBC2 Polyclonal Antibody - Images

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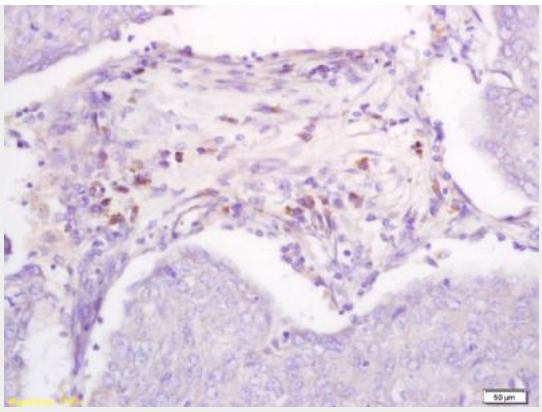

Tissue/cell: human breast carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: 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