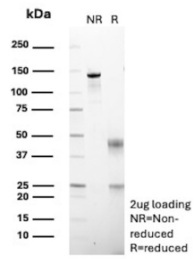
RHOBTB2 Antibody / Deleted in breast cancer gene 2 [clone DBC2/12581] (V5894)

Catalog No.	Formulation	Size
V5894-100UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V5894-20UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug
V5894SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	DBC2/12581
UniProt	Q9BYZ6
Localization	Cytoplasm, Secreted in plasma
Applications	ELISA :
Limitations	This RHOBTB2/Deleted in breast cancer gene 2 antibody is available for research use only.



SDS-PAGE Analysis of RHOBTB2/Deleted in breast cancer gene 2 antibody (clone DBC2/12581). Confirmation of Purity and Integrity of Antibody.

Description

RHOBTB2 Antibody recognizes Deleted in breast cancer gene 2, a member of the RhoBTB subfamily of atypical Rho GTPase proteins that is widely referred to as DBC2 in the literature. Deleted in breast cancer gene 2 is predominantly localized to the cytoplasm and functions as a tumor suppressor involved in regulation of cell cycle progression, intracellular trafficking, and protein turnover. RHOBTB2 Antibody is used in research settings to study loss of tumor

suppressor signaling and altered cellular regulation associated with malignant transformation.

Deleted in breast cancer gene 2 is encoded by the RHOBTB2 gene and differs from classical Rho GTPases in that it lacks intrinsic GTPase activity. Instead, RHOBTB2 acts as an adaptor protein containing BTB domains that mediate interactions with Cullin 3-based E3 ubiquitin ligase complexes. Through these interactions, Deleted in breast cancer gene 2 contributes to ubiquitin-dependent protein degradation pathways that influence cell proliferation, apoptosis, and cytoskeletal organization. RHOBTB2 Antibody therefore supports investigation of ubiquitin signaling and proteostasis mechanisms in normal and disease contexts.

RHOBTB2 expression has been reported in a range of epithelial and mesenchymal tissues, with reduced expression or genetic loss observed in multiple cancer types including breast carcinoma. Decreased Deleted in breast cancer gene 2 expression has been associated with enhanced cellular proliferation, impaired apoptotic signaling, and increased migratory behavior, reinforcing its role as a tumor suppressor. RHOBTB2 Antibody enables evaluation of expression patterns relevant to cancer biology and tumor progression research.

Beyond oncology, RHOBTB2 has also been implicated in neurological and developmental processes, broadening its relevance to cell biology and disease modeling studies. RHOBTB2 Antibody provides a useful reagent for examining cytoplasmic localization and relative expression of Deleted in breast cancer gene 2 in experimental systems. Clone DBC2/12581 is designed to recognize RHOBTB2 protein and may be applied to studies focused on tumor suppression, intracellular signaling, and ubiquitin-mediated regulatory pathways.

Explore our RHOBTB2 Antibody / Tumor Suppressor Marker clone DBC2/3361 page for additional validation data and research applications involving epithelial cancer biology, atypical Rho GTPase signaling, and tumor suppressor-associated cellular regulation pathways.

Application Notes

Optimal dilution of the RHOBTB2/Deleted in breast cancer gene 2 antibody should be determined by the researcher.

Immunogen

A human recombinant RHOBTB2 protein fragment (around amino acids 500-700) (exact sequence is proprietary) was used as the immunogen for the RHOBTB2/Deleted in breast cancer gene 2 antibody.

Storage

RHOBTB2/Deleted in breast cancer gene 2 antibody with sodium azide - store at 2 to 8oC; antibody without sodium azide - store at -20 to -80oC.