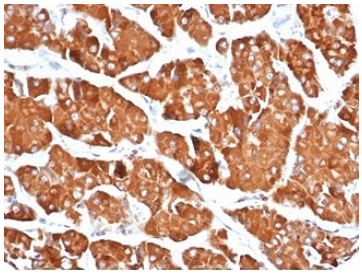
RHOBTB2 Antibody / Tumor Suppressor Marker [clone DBC2/3361] (V9500)

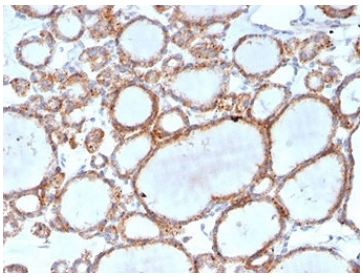
Catalog No.	Formulation	Size
V9500-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9500-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9500SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

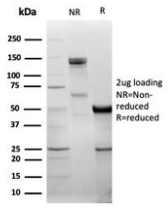
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	DBC2/3361
Purity	Protein A/G affinity
UniProt	Q9BYZ6
Localization	Secreted in plasma
Applications	Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This RHOBTB2 Antibody / Tumor Suppressor Marker is available for research use only.



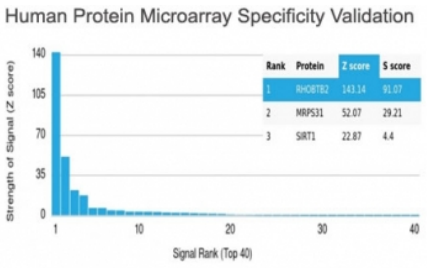
RHOBTB2 Antibody Renal Oncocytoma IHC. Immunohistochemistry analysis of FFPE human renal oncocytoma tissue stained with RHOBTB2 Antibody clone DBC2/3361. Strong cytoplasmic HRP-DAB brown staining is observed throughout tumor epithelial cell populations, consistent with the expected expression pattern of Rho-related BTB domain-containing protein 2 / RHOBTB2, an atypical Rho family tumor suppressor-associated regulatory protein involved in epithelial cancer signaling and ubiquitination-associated cellular pathways. Tissue sections underwent HIER using 10mM Tris with 1mM EDTA buffer, pH 9, prior to immunostaining.



RHOBTB2 Antibody Thyroid IHC. Immunohistochemistry analysis of FFPE human thyroid tissue stained with RHOBTB2 Antibody clone DBC2/3361. Distinct cytoplasmic and membranous HRP-DAB brown staining is observed within thyroid follicular epithelial cells, consistent with the expected expression profile of Rho-related BTB domain-containing protein 2 / RHOBTB2, an atypical Rho family tumor suppressor-associated regulatory protein involved in epithelial signaling and ubiquitination-associated cellular pathways. Tissue sections underwent HIER using 10mM Tris with 1mM EDTA buffer, pH 9, prior to immunostaining.



SDS-PAGE analysis of purified, BSA-free RHOBTB2 antibody (clone DBC2/3361) as confirmation of integrity and purity.



RHOBTB2 Antibody HuProt Microarray Specificity Validation. Analysis of a HuProt(TM) microarray containing more than 19,000 full-length human proteins using RHOBTB2 Antibody / Tumor Suppressor Marker clone DBC2/3361 demonstrates highly selective recognition of Rho-related BTB domain-containing protein 2 / RHOBTB2. The intended RHOBTB2 target ranks first among all proteins analyzed on the array, with exceptionally strong separation from secondary signals, supporting the specificity profile of this mouse monoclonal antibody for tumor suppressor signaling and epithelial cancer biology research applications. Z-score represents signal intensity above background in standard deviation units, while S-score reflects the relative specificity of antibody binding compared with additional proteins present on the HuProt(TM) platform.

Description

Rho-related BTB domain-containing protein 2 (RHOBTB2), also known as DBC2, is an atypical Rho family regulatory protein involved in tumor suppressor signaling, cytoskeletal regulation, and ubiquitin-associated cellular control pathways. RHOBTB2 Antibody / Tumor Suppressor Marker clone DBC2/3361 is suitable for investigations involving cancer-associated signaling pathways, epithelial tumor biology, and cell regulatory mechanisms linked to proliferation and differentiation control. RHOBTB2 belongs to the atypical Rho GTPase family and contains BTB domains associated with protein-protein interactions and ubiquitination-associated regulatory signaling.

RHOBTB2 antibody, also referred to as DBC2 antibody, Rho-related BTB domain-containing protein 2 antibody, Tumor suppressor protein DBC2 antibody, and Atypical Rho GTPase antibody in the literature, recognizes a regulatory protein implicated in tumor suppressor-associated signaling pathways and cellular growth regulation. RHOBTB2 expression has been associated with epithelial tissue biology, vesicle trafficking-associated signaling, and cytoskeletal regulatory mechanisms. Through participation in ubiquitin-associated cellular pathways and intracellular signaling regulation, RHOBTB2 contributes to maintenance of cellular homeostasis and proliferation-associated control mechanisms.

Atypical Rho family proteins participate in pathways controlling cytoskeletal organization, intracellular trafficking, cellular morphology, and tumor-associated signaling networks. RHOBTB2 has attracted substantial interest in oncology research because altered RHOBTB2-associated signaling has been linked to tumor progression, epithelial malignancy biology, and dysregulated proliferation-associated pathways. DBC2 was originally identified in association with tumor suppressor-related signaling mechanisms, and subsequent studies have explored its role in cancer-associated regulatory networks and epithelial differentiation-associated biology.

RHOBTB2 additionally interacts with Cullin-associated ubiquitination pathways and cellular degradation-associated

signaling mechanisms. Through regulation of intracellular trafficking and protein turnover-associated pathways, RHOBTB2 contributes to broader cellular regulatory environments influencing proliferation, differentiation, and tumor-associated signaling responses. Because atypical Rho GTPases influence multiple interconnected signaling systems, RHOBTB2 remains relevant for investigations involving epithelial tumor biology, cell cycle-associated regulation, and oncogenic signaling environments.

Immunohistochemistry analysis supports detection of endogenous RHOBTB2 expression in human renal oncocytoma and thyroid tissue, consistent with the expected expression profile of this tumor suppressor-associated regulatory protein. HuProt(TM) protein microarray specificity validation with clone DBC2/3361 further demonstrates selective recognition of RHOBTB2 among thousands of human proteins. The combined validation profile supports use of this mouse monoclonal antibody for investigations involving tumor suppressor signaling, atypical Rho GTPase biology, epithelial cancer pathways, and oncology-associated cellular regulation.

An antibody targeting RHOBTB2 can therefore support studies involving tumor suppressor-associated signaling pathways, epithelial cancer biology, atypical Rho family regulatory proteins, ubiquitination-associated cellular regulation, and oncogenic signaling-associated cellular mechanisms.

RHOBTB2 participates in tumor suppressor signaling and epithelial cancer-associated regulatory pathways; explore related oncology and signaling proteins on our Cancer Antibodies page.

Application Notes

Optimal dilution of the RHOBTB2 Antibody / Tumor Suppressor Marker should be determined by the researcher.

Immunogen

A portin of amino acids 554-604 from the human protein was used as the immunogen for the RHOBTB2 antibody.

Storage

Aliquot the RHOBTB2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

RHOBTB2 antibody, DBC2 antibody, Rho-related BTB domain-containing protein 2 antibody, Tumor suppressor protein DBC2 antibody, Atypical Rho GTPase antibody

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