Human VHL antibody

Catalog Number: ATGA0542

PRODUCT INFORMATION

Catalog number
ATGA0542

Clone No.
AT82B10

Product type
Monoclonal antibody

UnitProt No.
P40337

NCBI Accession No.
NP_000542

Alternative Names
Von Hippel-Lindau tumor suppressor isoform 1, Von Hippel-Lindau tumor suppressor isoform 1,HRCA1, RCA1, VHL1, Von Hippel-Lindau tumor suppressor isoform 1 pVHL, G7 protein, Elongin bindingprotein, HRCA 1, RCA 1, VHL, VHL 1, VHLH, Von Hippel Lindau disease tumor suppressor, vonHippel Lindau syndrome, von Hippel Lindau tumor suppressor, AVH0616

Additional Information
This product was produced from tissue culture supernatant.

PRODUCT SPECIFICATION

Antibody Host
Mouse

Reacts With
Human

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen
Recombinant human VHL (1-154aa) purified from E. coli

Isotype
IgG2b kappa

Purification Note
By protein-A affinity chromatography

Application
ELISA, WB, ICC/IF

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Usage

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

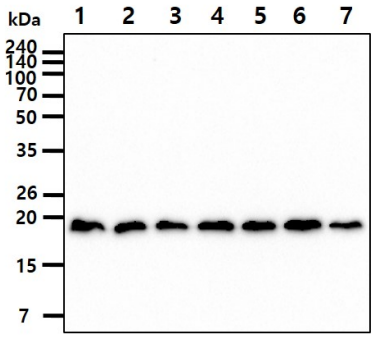
Von Hippel-Lindau disease (VHL) is a dominant inherited syndrome characterized by the predisposition todevelop various kinds of benign and malignant tumors, including clear cell renal carcinomas, pheochromocytomas andhemangioblastomas of the central nervous system and retina. VHL syndrome is caused by germline mutation in theVHL tumor suppressor, and VHL tumors are associated with loss or mutation of the remaining wild-typeallele. VHL has two domains: a roughly 100-residue NH2-terminal domain rich in beta sheet (beta-domain) anda smaller alpha-helical domain (alpha-domain), held together by two linkers and a polar interface. VHL proteinis also involved in the degradation of hypoxia-inducible factor (HIF).

General References

Latif F., et al. (1993) Science. 260(5112): 1317-20.
Duan DR., et al. (1995) PNAS. 92(14): 6459-63.
Maxwell PH., et al. (1999) Nature. 399(6733): 271-5.

DATA

Western blot analysis (WB)



The cell lysates(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human VHL antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: HepG2 cell lysate
Lane 2.: HeLa cell lysate
Lane 3.: Raji cell lysate
Lane 4.: Jurkat cell lysate
Lane 5.: A549 cell lysate
Lane 6.: MCF7 cell lysate
Lane 7.: PC3 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

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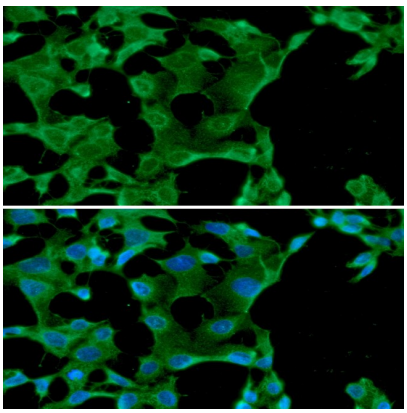

ICC/IF analysis of VHL in Hep3B cells. The cell was stained with ATGA0542 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).