

Anti-PHLDA3 antibody, mouse monoclonal (4B6)

71-195 100 µg

PHLDA3 (Pleckstrin homology-like domain family A member 3) is a small PH (Pleckstrin homology) domain-only protein (127 aa in human) that is highly conserved in vertebrates. Recently PHLDA3 was found to be a p53-regulated repressor of Akt (ref 2) hence it is speculated as a tumor suppressor. PHLDA3 also inhibits anchorage-independent cell growth. *PHLDA3* gene is frequently lost in human lung endocrine tumors.

The antibody was produced from the hybridoma cultured in serum-free medium and purified under mild conditions by propriety chromatography processes.

Applications

Western blot

Other applications were not tested.

Specification

Immunogen: Synthetic peptide corresponding to N terminal amino acids 1-31 of human PHLDA3

Isotype: Mouse IgG2b kappa

Form: Purified monoclonal antibody (IgG) 1 mg/ml in PBS, 50% glycerol, filter-sterilized

Specificity: Specific to human PHLDA3. Not tested with other species.

Storage: -20°C, for long term storage -70°C

Data Link

UniProtKB/Swiss-Prot [Q9Y5J5](#) (PHLA3_HUMAN)

References: This antibody has been used in Ref. 2

1. Frank D *et al* (1999) "A novel pleckstrin homology-related gene family defined by Ip1/Tssc3, TDAG51, and Tih1: tissue-specific expression, chromosomal location, and parental imprinting" *Mamm. Genome* **10**:1150-1159 PMID: [10594239](#)
2. Kawase T *et al* (2009) "PH domain-only PHLDA3 is a novel p53-regulated repressor of Akt" *Cell* **136**: 535-550 PMID: [19203586](#)

Fig.1 Western blot was performed using the antibody 4B6 to detect PHLDA3 protein expression. PHLDA3 protein was induced by Ad-p53 in MDA-MB-468 cells (left). PHLDA3 expression was inhibited by shRNA targeting PHLDA3 (right).

