

PDCD4 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP14001c**Specification**

PDCD4 Antibody (Center) Blocking peptide - Product InformationPrimary Accession [Q53EL6](#)**PDCD4 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 27250**Other Names**

Programmed cell death protein 4, Neoplastic transformation inhibitor protein, Nuclear antigen H731-like, Protein 197/15a, PDCD4, H731

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP14001c was selected from the Center region of PDCD4. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PDCD4 Antibody (Center) Blocking peptide - Protein Information**Name** PDCD4**Synonyms** H731**Function**

Inhibits translation initiation and cap-dependent translation. May exert its function by hindering the interaction between EIF4A1 and EIF4G. Inhibits the helicase activity of EIF4A. Modulates the activation of JUN kinase. Down-regulates the expression of MAP4K1, thus inhibiting events important in driving invasion, namely, MAPK85 activation and consequent JUN-dependent transcription. May play a role in apoptosis. Tumor suppressor. Inhibits tumor promoter-induced neoplastic transformation. Binds RNA (By similarity).

Cellular Location

Nucleus {ECO:0000250|UniProtKB:Q61823}. Cytoplasm {ECO:0000250|UniProtKB:Q61823}. Note=Shuttles between the nucleus and cytoplasm (By similarity). Predominantly nuclear under

normal growth conditions, and when phosphorylated at Ser-457 (PubMed:16357133)

Tissue Location

Up-regulated in proliferative cells. Highly expressed in epithelial cells of the mammary gland. Reduced expression in lung cancer and colon carcinoma.

PDCD4 Antibody (Center) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

PDCD4 Antibody (Center) Blocking peptide - Images**PDCD4 Antibody (Center) Blocking peptide - Background**

This gene encodes a protein localized to the nucleus in proliferating cells. Expression of this gene is modulated by cytokines in natural killer and T cells. The gene product is thought to play a role in apoptosis but the specific role has not yet been determined. Two transcripts encoding different isoforms have been identified.

PDCD4 Antibody (Center) Blocking peptide - References

Hayashi, A., et al. Hum. Pathol. 41(11):1507-1515(2010) Zhang, X., et al. Cancer Sci. 101(10):2163-2170(2010) Wang, W., et al. Exp. Cell Res. 316(15):2456-2464(2010) Santhanam, A.N., et al. Oncogene 29(27):3921-3932(2010) Fassan, M., et al. Oncol. Rep. 24(1):135-139(2010)