

**Product Name: KD-Validated PDK2 Mouse Monoclonal Antibody****Catalog #: KVA01866**

For research use only.

**Summary**

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| <b>Description</b>  | KO&KD-Validated antibody                                                    |
| <b>Host</b>         | Mouse                                                                       |
| <b>Application</b>  | WB                                                                          |
| <b>Reactivity</b>   | Human,Mouse,Rat                                                             |
| <b>Conjugation</b>  | Unconjugated                                                                |
| <b>Modification</b> | Unmodified                                                                  |
| <b>Isotype</b>      | Mouse IgG1 kappa                                                            |
| <b>Clonality</b>    | Mouse mAb                                                                   |
| <b>Form</b>         | Liquid                                                                      |
| <b>Storage</b>      | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| <b>Shipping</b>     | Ice bags                                                                    |
| <b>Buffer</b>       | Supplied in PBS (pH 7.4) containing 0.02% sodium azide.                     |
| <b>Purification</b> | Affinity purification                                                       |

**Application**

|                         |                        |
|-------------------------|------------------------|
| <b>Dilution Ratio</b>   | WB 1:400-1:2,000       |
| <b>Molecular Weight</b> | Calculated MW: 46.2kDa |

**Antigen Information**

|                          |                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | PDK2<br>PDK2; Pyruvate Dehydrogenase Kinase 2; PDHK2; [Pyruvate Dehydrogenase (Acetyl-Transferring)] Kinase Isozyme 2, Mitochondrial; Pyruvate Dehydrogenase Kinase, Isoenzyme 2; Pyruvate Dehydrogenase Kinase, Isozyme 2; PDH Kinase 2; EC 2.7.11.2; PDKII; Pyruvate Dehydrogenase, Lipoamide, Kinase Isozyme 2, Mitochondrial; Pyruvate Dehydrogenase Kinase Isoform 2; EC 2.7.11 |
| <b>Alternative Names</b> |                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Gene ID</b>           | 5164.0                                                                                                                                                                                                                                                                                                                                                                               |
| <b>SwissProt ID</b>      | Q15119                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Immunogen</b>         | Recombinant protein of human PDK2                                                                                                                                                                                                                                                                                                                                                    |

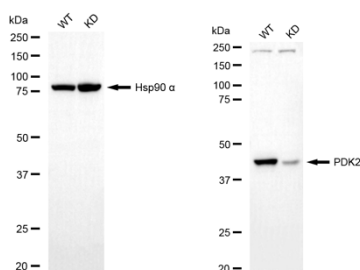
**Background**

This gene encodes a member of the pyruvate dehydrogenase kinase family. The encoded protein phosphorylates pyruvate dehydrogenase, down-regulating the activity of the mitochondrial pyruvate dehydrogenase complex. Overexpression of this gene may play a role in both cancer and diabetes. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2010]

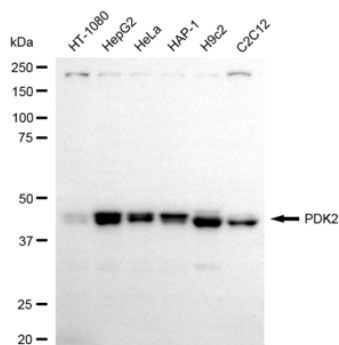
## Research Area

Signal Transduction,Cancer,Metabolism

## Image Data



Western blotting analysis using PDK2 antibody (KVA01866). PDK2 expression in wild type (WT) and PDK2 knockdown (KD) HSHC cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with PDK2 antibody (KVA01866, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using PDK2 antibody (KVA01866). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PDK2 antibody (KVA01866, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.