

## Recombinant Pyruvate Dehydrogenase E1 $\alpha$ Monoclonal Antibody

catalog number: **AN301007L**

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

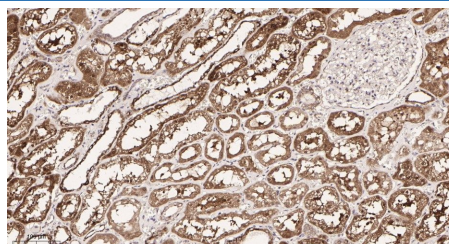
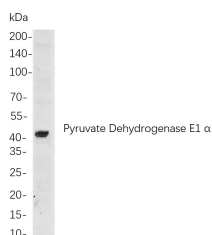
### Description

<b>Reactivity</b>	Human;Mouse;Rat
<b>Immunogen</b>	Recombinant Human Pyruvate Dehydrogenase E1 $\alpha$ protein
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG, $\kappa$
<b>Clone</b>	B758
<b>Purification</b>	Protein A
<b>Buffer</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

### Applications Recommended Dilution

<b>IHC</b>	1:200-1:1000
<b>WB</b>	1:1000-1:5000
<b>IF</b>	1:200-1:1000
<b>ELISA</b>	1:5000-1:20000
<b>IP</b>	1:50-1:200,

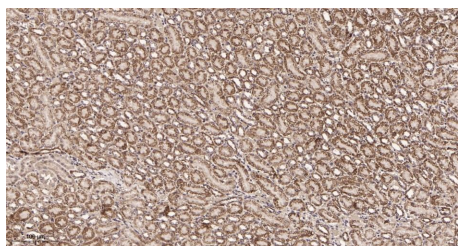
### Data



Western Blot with Recombinant Pyruvate Dehydrogenase E1  $\alpha$  Monoclonal Antibody at dilution of 1:1000 dilution. Lane A: HEK293 cells.

Immunohistochemistry of paraffin-embedded human kidney tissue using Recombinant Pyruvate Dehydrogenase E1  $\alpha$  Monoclonal Antibody at dilution of 1:200.

**Observed-MW:43 kDa**  
**Calculated-MW:43 kDa**



Immunohistochemistry of paraffin-embedded mouse kidney tissue using Recombinant Pyruvate Dehydrogenase E1  $\alpha$  Monoclonal Antibody at dilution of 1:200.

### Preparation & Storage

<b>Storage</b>	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
<b>Shipping</b>	Ice bag

### Background

#### For Research Use Only

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Rev. V1.2

The pyruvate dehydrogenase (PDH) complex is a nuclear-encoded mitochondrial multienzyme complex that catalyzes the overall conversion of pyruvate to acetyl-CoA and CO<sub>2</sub>, and provides the primary link between glycolysis and the tricarboxylic acid (TCA) cycle. The PDH complex is composed of multiple copies of three enzymatic components: pyruvate dehydrogenase (E1), dihydrolipoamide acetyltransferase (E2) and lipoamide dehydrogenase (E3). The E1 enzyme is a heterotetramer of two alpha and two beta subunits. This gene encodes the E1 alpha 1 subunit containing the E1 active site, and plays a key role in the function of the PDH complex. Mutations in this gene are associated with pyruvate dehydrogenase E1-alpha deficiency and X-linked Leigh syndrome. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.