

#### **International Office**

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# EB11136 - Goat Anti-PRODH (aa112-134) Antibody

Size: 100µg specific antibody in 200µl



## **Target Protein**

Principal Names: FLJ33744, HSPOX2, MGC148078, MGC148079,

OTTHUMP00000196496, OTTHUMP00000196497, p53-induced gene 6 protein, PIG6, POX, PRODH1, PRODH2, proline dehydrogenase (oxidase) 1, proline dehydrogenase, mitochondrial, proline oxidase 2, proline oxidase, mitochondrial, SCZD4, TP53I6, tumor

protein p53 inducible protein 6, PRODH

Official Symbol: PRODH

Accession Number(s): NP\_057419.4; NP\_001182155.1

Human GeneID(s): 5625

Important Comments: This antibody is expected to recognize both reported isoforms

(NP\_057419.4; NP\_001182155.1).

### **Immunogen**

Peptide with sequence C-EDQESIQPLLRHYR, from the internal region of the protein sequence according to NP\_057419.4; NP\_001182155.1.

Please note the peptide is available for sale.

## **Purification and Storage**

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

#### **Applications Tested**

Peptide ELISA: antibody detection limit dilution 1:16000.

**Western blot:** Approx75+55kDa bands observed in Human Brain (Cerebellum and Substantia nigra) lysates (calculated MW of 68.0kDakDa according to NP\_057419.4 and of 56.2kDa according to NP\_001182155.1). Recommended concentration: 0.3-1µg/ml.

## **Species Reactivity**

Tested: Human

Expected from sequence similarity: Human

#### **Specific References**

## This antibody has been successfully used in WB on Human:

Ilona Oscilowska, Thi Y. L. Huynh, Weronika Baszanowska, Izabela Prokop,

Arkadiusz Surazynski, Mauro Galli, Piotr Zabielski & Jerzy Palka

Proline oxidase silencing inhibits p53-dependent apoptosis in MCF-7 breast cancer cells.

Amino Acids. 2021 Dec;53(12):1943-1956.

PMID: 34085157

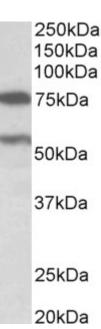
#### This antibody has been successfully used in Western blot on Human:

Zareba I, Surazynski A, Chrusciel M, Miltyk W, Doroszko M, Rahman N, Palka J.

Functional Consequences of Intracellular Proline Levels Manipulation Affecting PRODH/POX-Deperture Novel in Vitro Cell Culture Model.

Cell Physiol Biochem. 2017 Sep 22;43(2):670-684.

PMID: 28942439



EB11136 (0.3 $\mu$ g/ml) staining of Human Cerebellum lysate (35 $\mu$ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.