

## UK Office

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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## 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 68.0kDa 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

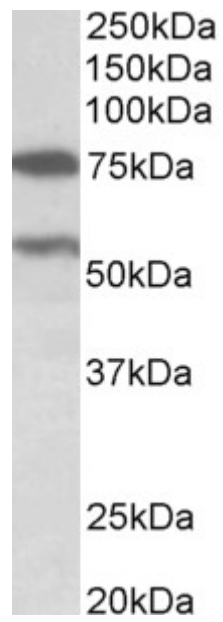
### Specific References

**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-Dependent Apoptosis: A 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.