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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

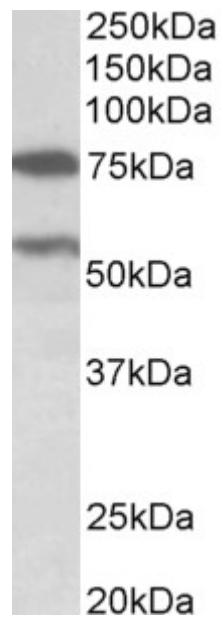
Specific References

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, Miłtyk 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 μ g/ml) staining of Human Cerebellum lysate (35 μ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.