



User's Manual

# Human ALDH4A1 ELISA Matched Antibody Pair

REF ABPR-0045



RUO



This product is for research use only and is not intended for diagnostic use.

For illustrative purposes only. To perform the assay the instructions for use provided with the kit have to be used.

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## PRODUCT INFORMATION

### Intended Use

This antibody pair set comes with matched antibody pair to detect and quantify protein level of human ALDH4A1.

### General Description

This protein belongs to the aldehyde dehydrogenase family of proteins. This enzyme is a mitochondrial matrix NAD-dependent dehydrogenase which catalyzes the second step of the proline degradation pathway, converting pyrroline-5-carboxylate to glutamate. Deficiency of this enzyme is associated with type II hyperprolinemia, an autosomal recessive disorder characterized by accumulation of delta-1-pyrroline-5-carboxylate (P5C) and proline. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene.

### Reagents And Materials Provided

Antibody pair set content:

1. Capture antibody: affinity purified rabbit polyclonal anti-ALDH4A1 (100 ug)
2. Detection antibody: purified mouse polyclonal anti-ALDH4A1 (20 ug)

\*Reagents are sufficient for at least 1-2 x 96 well plates using recommended protocols.

### Reconstitution And Storage

Store reagents of the antibody pair set at -20°C or lower. Please aliquot to avoid repeated freeze thaw cycle. Reagents should be returned to -20°C storage immediately after use.