

Product datasheet

# Recombinant Human PHD4/prolyl hydroxylase protein ab162816

1 Image

Overview

<b>Product name</b>	Recombinant Human PHD4/prolyl hydroxylase protein
<b>Protein length</b>	Full length protein

Description

<b>Nature</b>	Recombinant
<b>Source</b>	Wheat germ
<b>Amino Acid Sequence</b>	
<b>Species</b>	Human

<b>Sequence</b>	<p>MAAAAVTGQRPETAAAEASRPQWAPPDHCQAQAA          AGLGDGEDAPVRPLC          KPRGICSRAYFLVLMVHVHLYLGNVLALLLFVHYSNGD          ESSDPGPQHRAQ          GPGPEPTLGPLTRLEGIKVGHKRVQLVTDTRDHFIRTL          SLKPLLFEIPGF          LTDEECRLIIHLAQMKGLQRSQILPTEEYEEAMSTMQVS          QLDLFRLLDQN          RDGHLQLREVLAQTRLGNGWWMTPESIQEMYAAIKAD          PDGDGVLSLQEFS          NMDLRDFHKYMRSHKAESSELVRNSHHTWLYQGEGA          HHIMRAIRQVRLRL          TRLSPEVELSEPLQVVRYGEGGHYHAHVDSGPVYPET          ICSTKLVANES          VPFETSCRQVSPNWGLPSILRPGTPMTQAQPCTVGVP          LGMGPGDHWVIPV          SPWEHPQLGTCSVPPLPYSYMTVLFYLNNTGGGETV          FPVADNRTYDEMS          LIQDDVDLRDTRRHCDKGNLRVKPQQGTAVFWYNYLP          DGQGWVGDVDDYS          LHGGCLVTRGTKWIANNWINVDPSRARQALFQQEMAR          LAREGGTDSQPEW ALDRAYRDARVEL</p>
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<b>Amino acids</b>	1 to 563
<b>Tags</b>	GST tag N-Terminus

## Specifications

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Our [Abpromise guarantee](#) covers the use of **ab162816** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Western blot ELISA
<b>Form</b>	Liquid
<b>Additional notes</b>	Protein concentration is above or equal to 0.05 mg/ml.

## Preparation and Storage

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<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
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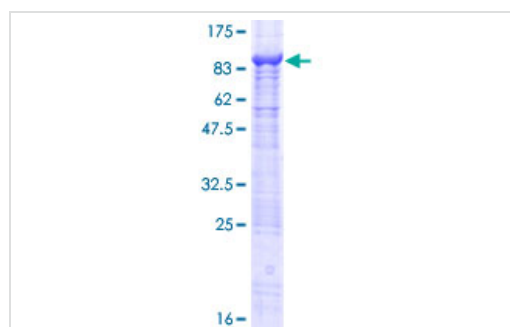
## General Info

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<b>Function</b>	Catalyzes the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. Hydroxylates HIF1A at 'Pro-402' and 'Pro-564'. May function as a cellular oxygen sensor and, under normoxic conditions, may target HIF through the hydroxylation for proteasomal degradation via the von Hippel-Lindau ubiquitination complex.
<b>Tissue specificity</b>	Widely expressed with highest levels in adult pancreas, heart, skeletal muscle, brain, placenta, kidney and adrenal gland. Expressed at lower levels in epiphyseal cartilage and in fibroblasts.
<b>Sequence similarities</b>	Contains 2 EF-hand domains. Contains 1 Fe2OG dioxygenase domain.
<b>Post-translational modifications</b>	Glycosylated.
<b>Cellular localization</b>	Endoplasmic reticulum membrane.

## Images

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ab162816 on a 12.5% SDS-PAGE stained with Coomassie Blue.

SDS-PAGE - Recombinant Human PHD4/prolyl hydroxylase protein (ab162816)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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