

# Anti-PHD1 [PHD112/G7]

**Catalogue number:** 151313

**Sub-type:** Primary antibody

**Images:**

## Contributor

**Inventor:** Helen Turley

**Institute:** University of Oxford

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** Anti-PHD1 [PHD112/G7]

**Alternate name:**

**Class:** Monoclonal

**Conjugate:** Unconjugated

**Description:** PHD1 catalyzes the posttranslational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins and hydroxylates HIF-1 alpha at Pro-402 and Pro-564, and HIF-2 alpha. It functions as a cellular oxygen sensor and, under normoxic conditions, targets HIF through the hydroxylation for proteasomal degradation via the von Hippel-Lindau ubiquitylation complex. It may play a role in cell growth regulation.

**Purpose:**

**Parental cell:**

**Organism:**

**Tissue:**

**Model:**

**Gender:**

**Isotype:** IgM

**Reactivity:** Human

**Selectivity:**

**Host:** Mouse

**Immunogen:** Full length recombinant human PHD1

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:**

**Production details:**

**Formulation:**

**Recommended controls:**

MCF7 cells

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:**

## Target details

**Target:** Prolyl Hydroxylase 1 (PHD1)

**Target alternate names:**

**Target background:** PHD1 catalyzes the posttranslational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins and hydroxylates HIF-1 alpha at Pro-402 and Pro-564, and HIF-2 alpha. It functions as a cellular oxygen sensor and, under normoxic conditions, targets HIF through the hydroxylation for proteasomal degradation via the von Hippel-Lindau ubiquitylation complex. It may play a role in cell growth regulation.

**Molecular weight:** 43.6 kDa

**Ic50:**

## Applications

**Application:** IHC ; WB

**Application notes:**

## Handling

**Format:** Liquid

**Concentration:** 1 mg/ml

**Passage number:**

**Growth medium:**

**Temperature:**

**Atmosphere:**

**Volume:**

**Storage medium:**

**Storage buffer:** PBS with 0.02% azide

**Storage conditions:** -15° C to -25° C

**Shipping conditions:** Shipping at 4° C

## Related tools

**Related tools:** Anti-PHD2 [366G/76/3] ; Anti-PHD3 [EG188e/d5]

## References

**References:** Bensaad et al. 2006. Cell. 126(1):107-20. PMID: 16839880. ; TIGAR, a p53-inducible regulator of glycolysis and apoptosis.

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