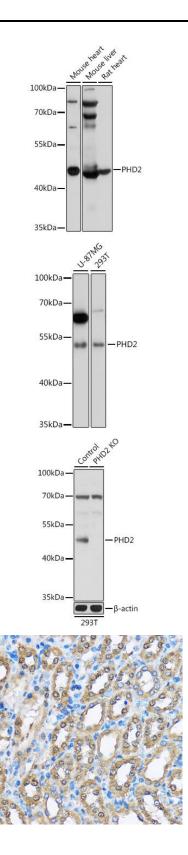
[KO Validated] PHD2 Rabbit Polyclonal Antibody

CAB14557



| Product Information | Protein Background |
|--|---|
| Size: | The protein encoded by this gene catalyzes the post-translational formation of 4 |
| 20uL, 50uL, 100uL, 200uL | hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. HIF is a transcriptional complex that plays a central role in mammalian oxygen homeostasis. This protein functions as a cellula |
| Observed MW: | oxygen sensor, and under normal oxygen concentration, modification by prolyl hydroxylation is a key regulatory event that targets HIF subunits for proteasomal destruction via the vor |
| 46kDa | Hippel-Lindau ubiquitylation complex. Mutations in this gene are associated with erythrocytosis familial type 3 (ECYT3). |
| Calculated MW: | |
| 36kDa/43kDa/46kDa | Immunogen information |
| Applications: | Gene ID: 54583 |
| WB IHC IF | |
| Reactivity: | Uniprot Q9GZT9 |
| Human, Mouse, Rat | |
| Antibody Information | Synonyms: EGLN1; C1orf12; ECYT3; HALAH; HIF-PH2; HIFPH2; HPH-2; HPH2; PHD2; SM20; ZMYND6 |
| - | |
| Recommended dilutions: WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200 | Immunogen: Recombinant fusion protein containing a sequence corresponding |
| Source: Rabbit | to amino acids 1-426 of human PHD2 (NP_071334.1). |
| lsotype: lgG | Storage: Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3. |

Purification: Affinity purification



Western blot analysis of extracts of various cell lines, using PHD2 antibody (CAB14557) at 1:3000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (CABM00020). Exposure time: 30s.

Western blot analysis of extracts of various cell lines, using PHD2 antibody (CAB14557) at 1:3000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (CABM00020). Exposure time: 30s.

Western blot analysis of extracts from normal (control) and PHD2 knockout (KO) 293T cells, using PHD2 antibody (CAB14557) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (CABM00020). Exposure time: 10s.

Immunohistochemistry of paraffin-embedded Rat kidney using PHD2 antibody (CAB14557) at dilution of 1:100 (40x lens).