Datasheet for ABIN2855683

# anti-EPAS1 antibody

3 Images | 1 Publication

Go to Product page

## Overview

| | |
|---|---|
| Quantity: | 100 µL |
| Target: | EPAS1 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This EPAS1 antibody is un-conjugated |
| Application: | Western Blotting (WB), Chromatin Immunoprecipitation (ChIP) |

## Product Details

| | |
|---|---|
| Immunogen: | Recombinant protein encompassing a sequence within the center region of human HIF2 alpha. The exact sequence is proprietary. |
| Isotype: | IgG |
| Cross-Reactivity: | Human, Zebrafish (Danio rerio) |
| Characteristics: | Rabbit Polyclonal antibody to HIF2 alpha (endothelial PAS domain protein 1)<br>HIF2 alpha antibody [N1N3] |
| Purification: | Purified by antigen-affinity chromatography. |

## Target Details

| | |
|---|---|
| Target: | EPAS1 |
| Alternative Name: | endothelial PAS domain protein 1 (EPAS1 Products) |

## Target Details

| | |
|---|---|
| Background: | This gene encodes a transcription factor involved in the induction of genes regulated by oxygen, which is induced as oxygen levels fall. The encoded protein contains a basic-helix-loop-helix domain protein dimerization domain as well as a domain found in proteins in signal transduction pathways which respond to oxygen levels. Mutations in this gene are associated with erythrocytosis familial type 4.<br><br>Cellular Localization: Nucleus |
| Molecular Weight: | 96 kDa |
| Gene ID: | 2034 |
| UniProt: | Q99814 |
| Pathways: | Signaling Events mediated by VEGFR1 and VEGFR2, Warburg Effect |

## Application Details

| | |
|---|---|
| Application Notes: | WB: 1:500-1:3000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications. |
| Comment: | Positive Control: HepG2 (1% O2 treatment for 24hr)<br>Validation: Orthogonal |
| Restrictions: | For Research Use only |

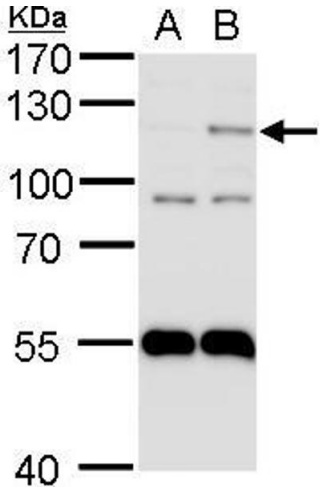
## Handling

| | |
|---|---|
| Format: | Liquid |
| Concentration: | 1 mg/mL |
| Buffer: | 1XPBS ( pH 7), 20 % Glycerol, 0.025 % ProClin 300 |
| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles. |

## Publications

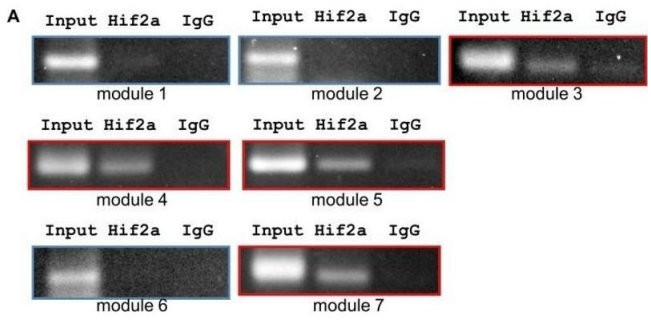
Product cited in: Alfonso-Pérez, Hayward, Holder, Gruneberg, Barr: "MAD1-dependent recruitment of CDK1-CCNB1 to kinetochores promotes spindle checkpoint signaling." in: **The Journal of cell biology**, Vol. 218, Issue 4, pp. 1108-1117, (2020) (PubMed).

## Validation report #104394 for Cleavage Under Targets and Release Using Nuclease (CUT&RUN)



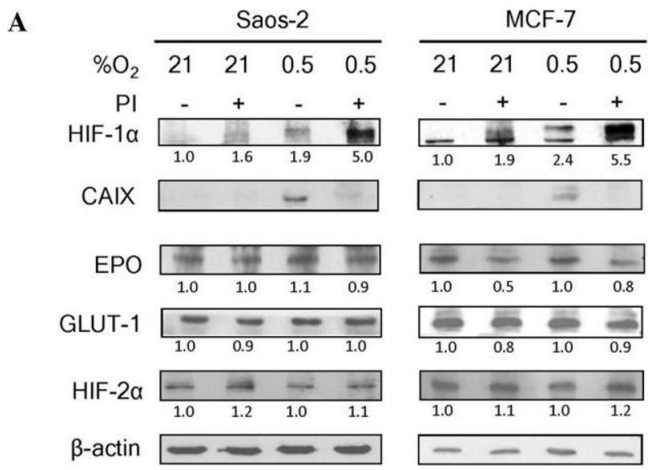

### Western Blotting

**Image 1.** WB Image HIF2 alpha antibody detects HIF2 alpha protein by western blot analysis. A. 30 µg HepG2 whole cell lysate/extract B. 30 µg HepG2 whole cell lysate/extract (1% O2 treatment for 24 hr) 7.5 % SDS-PAGE HIF2 alpha antibody , dilution: 1:1000




### Chromatin Immunoprecipitation

**Image 2.** Hif2-alpha binds to leg1a and leg1b promoters.The binding of hif2-alpha to the promoter region of the leg1a (A) and leg1b (B) genes was examined by ChIP-PCR. Seven and nine HRE-containing modules in the promoter regions of leg1a and leg1b, respectively, are amplified from the immunocomplexes obtained by ChIP assays performed using a polyclonal antibody against anti-Hif2-alpha or a preimmune serum (IgG) as controls. (C) Schematic representation of the leg1a and leg1b promoter regions. HRE (A/G-C-G-T-G) are annotated as dark lines. The positions of the modules analyzed in the ChIP-PCR assays are shown as grey boxes. The amplified fragments in ChIP assays, including modules 3, 4, 5 and 7 in the leg1a promoter and modules 1, 2 and 9 in the leg1b promoter, are outlined in red (A, B). - figure provided by CiteAb. Source: PMID26622817




## Western Blotting

**Image 3.** Bortezomib attenuates HIF-1 but not HIF-2 transcriptional activity. Saos-2 and MCF-7 cells were cultured under normoxia (21 % O2) or hypoxia (0.5 % O2) in the presence or absence of bortezomib. The levels of HIF-1 α, HIF-2α and their (A) target gene expression and (B) their transcript levels were examined. PI, proteasomal inhibitor (bortezomib), HIF, hypoxia-inducible factor, CAIX, carbonic anhydrase IX, CA9, carbonic anhydrase 9, EPO, erythropoietin, GLUT-1, glucose transporter 1, Con, control (template replaced with water). - figure provided by CiteAb.

Source: PMID26622817