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HIF-3 alpha antibody

Rabbit polyclonal antibody to HIF-3 alpha

Catalog Number **NB 100-2529**

Background: Hypoxia-inducible factor (HIF) is one of the most important factors in the cellular response to hypoxia, transcriptionally activating genes encoding proteins that mediate adaptive responses to reduced oxygen availability. HIF is a heterodimer consisting of one of three subunits, HIF1 alpha, HIF2 alpha, or HIF3 alpha. HIF target genes play critical roles in metabolism, angiogenesis, cell proliferation and cell survival. HIF3 alpha protein is one of several alpha/beta-subunit heterodimeric transcription factors that regulate many adaptive responses to low oxygen tension (hypoxia). The alpha 3 subunit lacks the transactivation domain found in factors containing either the alpha 1 or alpha 2 subunits. HIF3 alpha may be a marker for tumor growth and angiogenesis.

Alternate Names: HIF3 alpha antibody, Hypoxia Inducible Factor 3 alpha antibody, Hypoxia inducible factor three alpha antibody, Inhibitory PAS domain protein antibody

Specificity: This antibody is specific for HIF-3 alpha.

Immunogen: A synthetic peptide made to an internal region of the human HIF-3 alpha (within residues 250-350). [Swiss-Prot# Q66K72]

Host: Rabbit

Species Reactivity: Recognizes human HIF-3 alpha. Other species have not been tested.

Uses and Dilutions: May be used in Western analysis where it recognizes a band at ~68 kDa representing HIF-3 alpha. Because a band at ~71 kDa is also seen in hypoxic samples,it is important to run a negative control lysate, as well (see image). Not tested in any other application.

Suggested working dilution:*
Western Blot - 1:500-1:1,000

*The investigator should determine the optimal working dilution for a specific application.

Positive Control: Cos7 CoCl2-treated lysate

Form: 0.1 ml of affinity purified rabbit antisera.

Concentration: 24 mg/ml

Storage Buffer: PBS

Preservative: 0.02% sodium azide

Storage: Store at 4 degrees Celsius. Avoid repeated freeze-thaw cycles.

Limitations: This product is for research use only and is not approved for use in humans or in clinical diagnosis.

General References:

1. Gu YZ, Moran SM, Hogenesch JB, Wartman L, Bradfield CA. Molecular characterization and chromosomal localization of a third alpha-class hypoxia inducible factor subunit, HIF3 alpha. Gene Expr. 1998;7(3):205-13.

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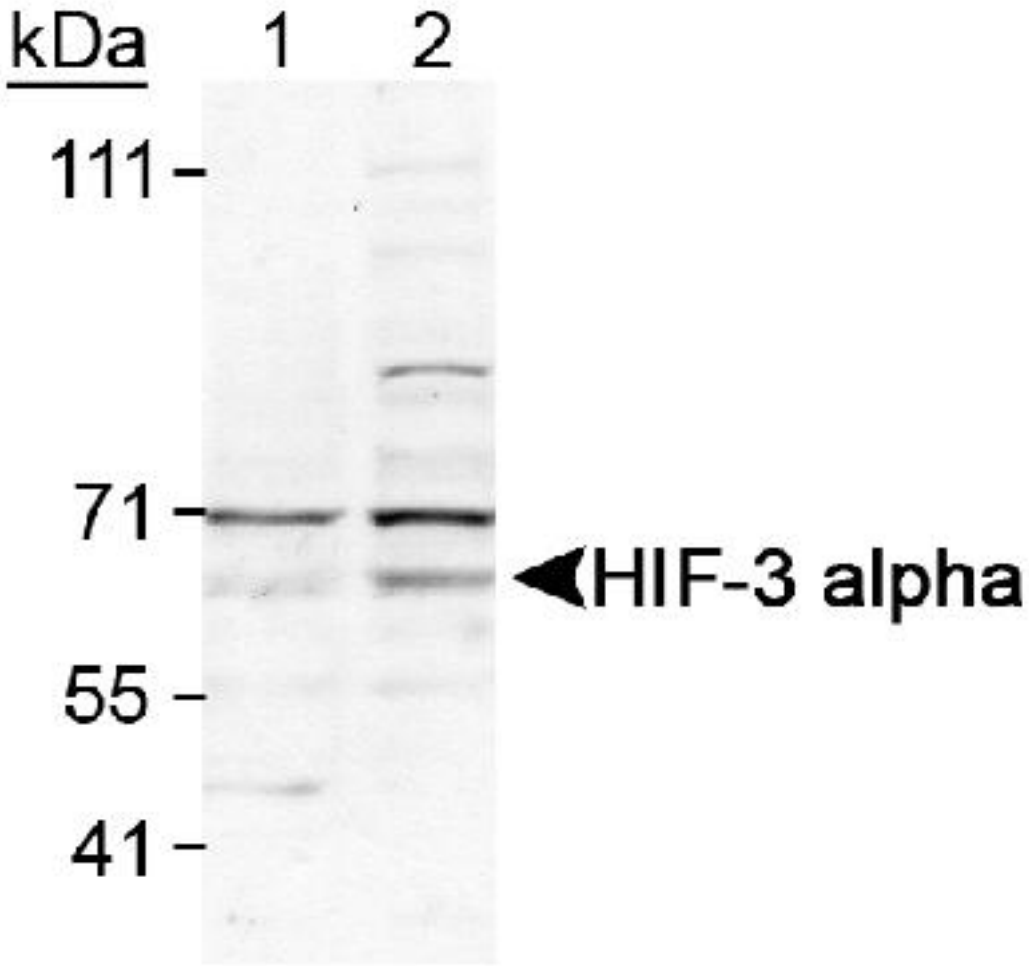
Image(s)



Detection of HIF-3 alpha using NB 100-2529.
Lane 1: Cos7(-) control
Lane 2: Cos7-CoC1₂(+) Control